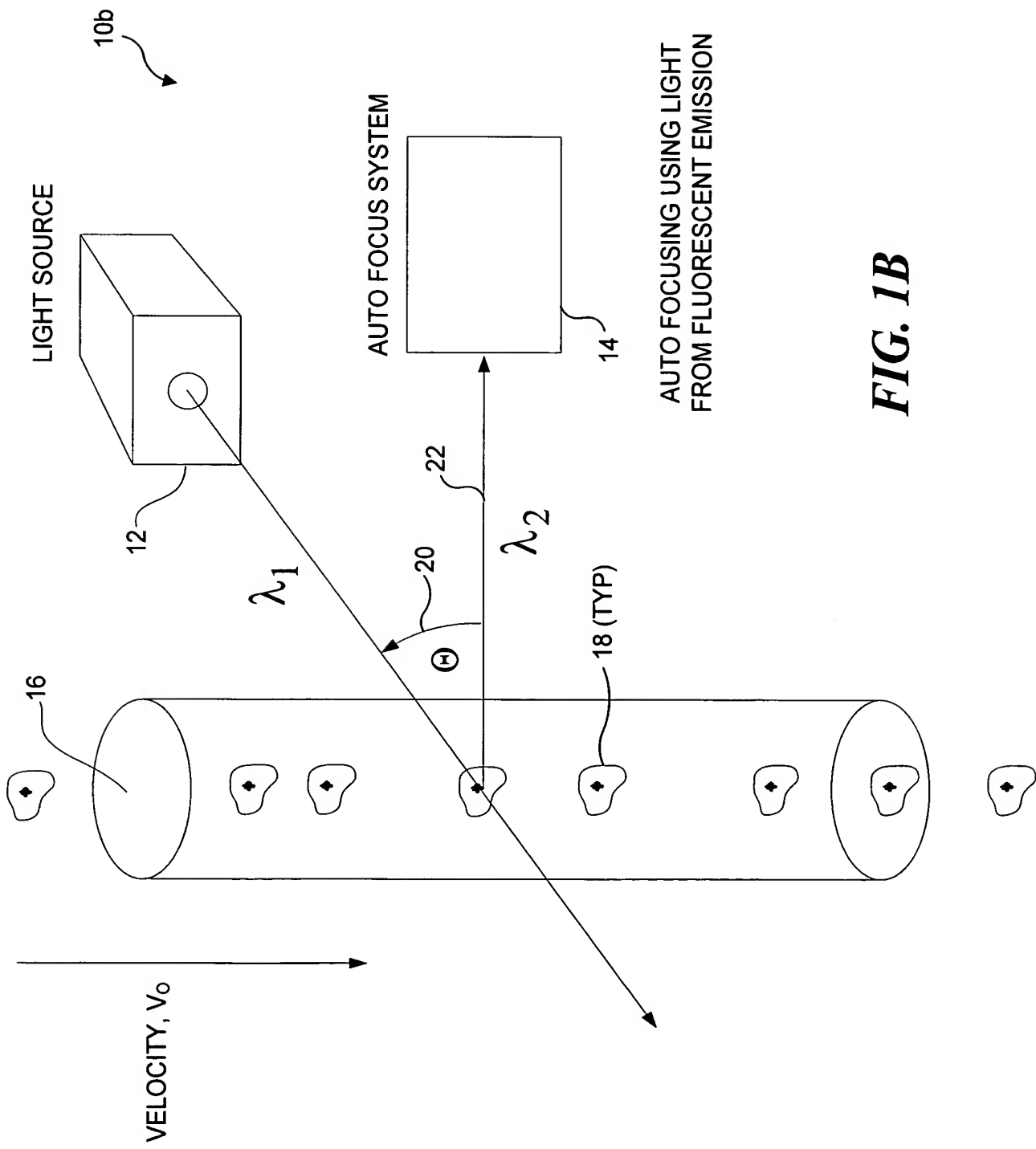
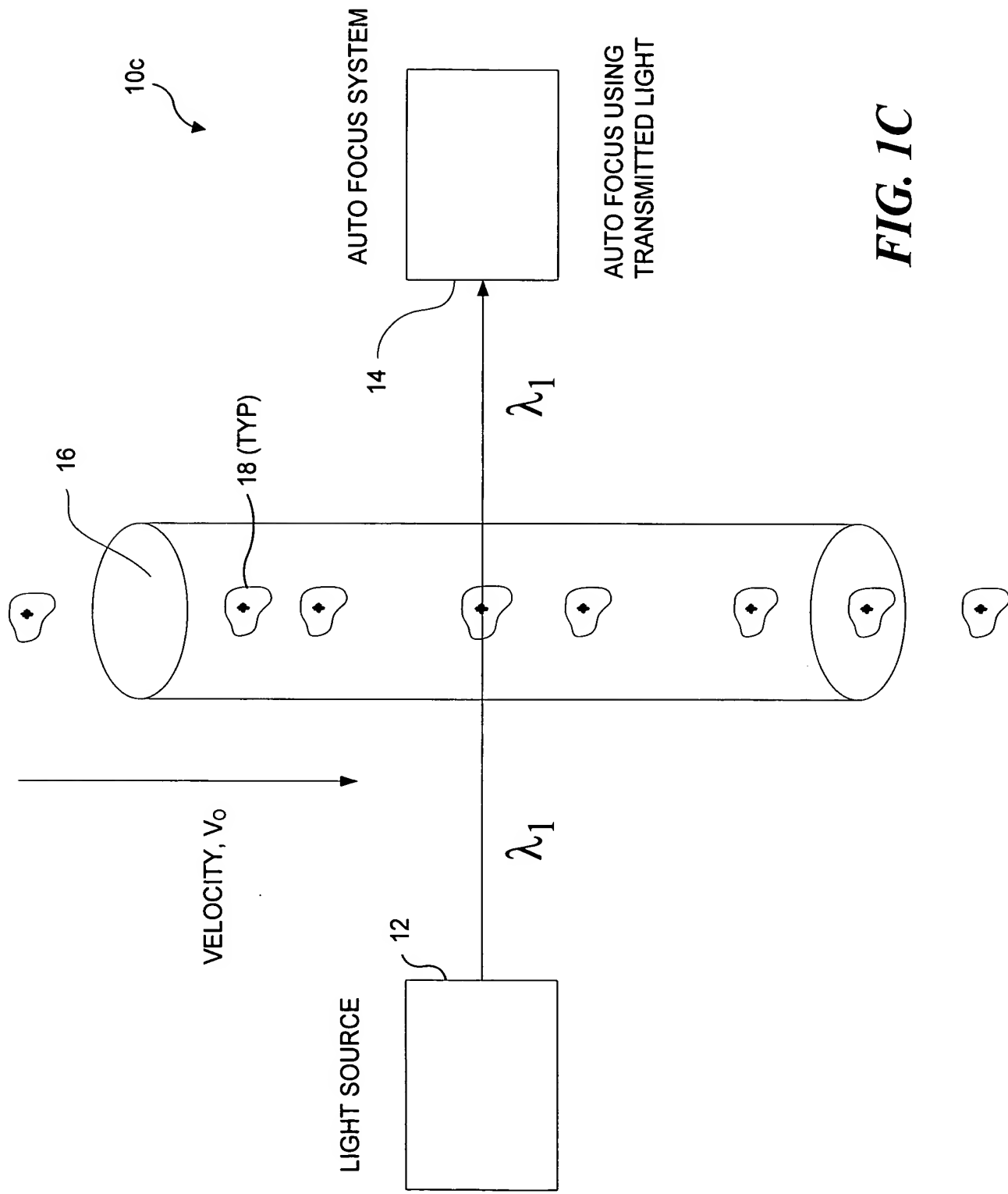


**FIG. 1A**



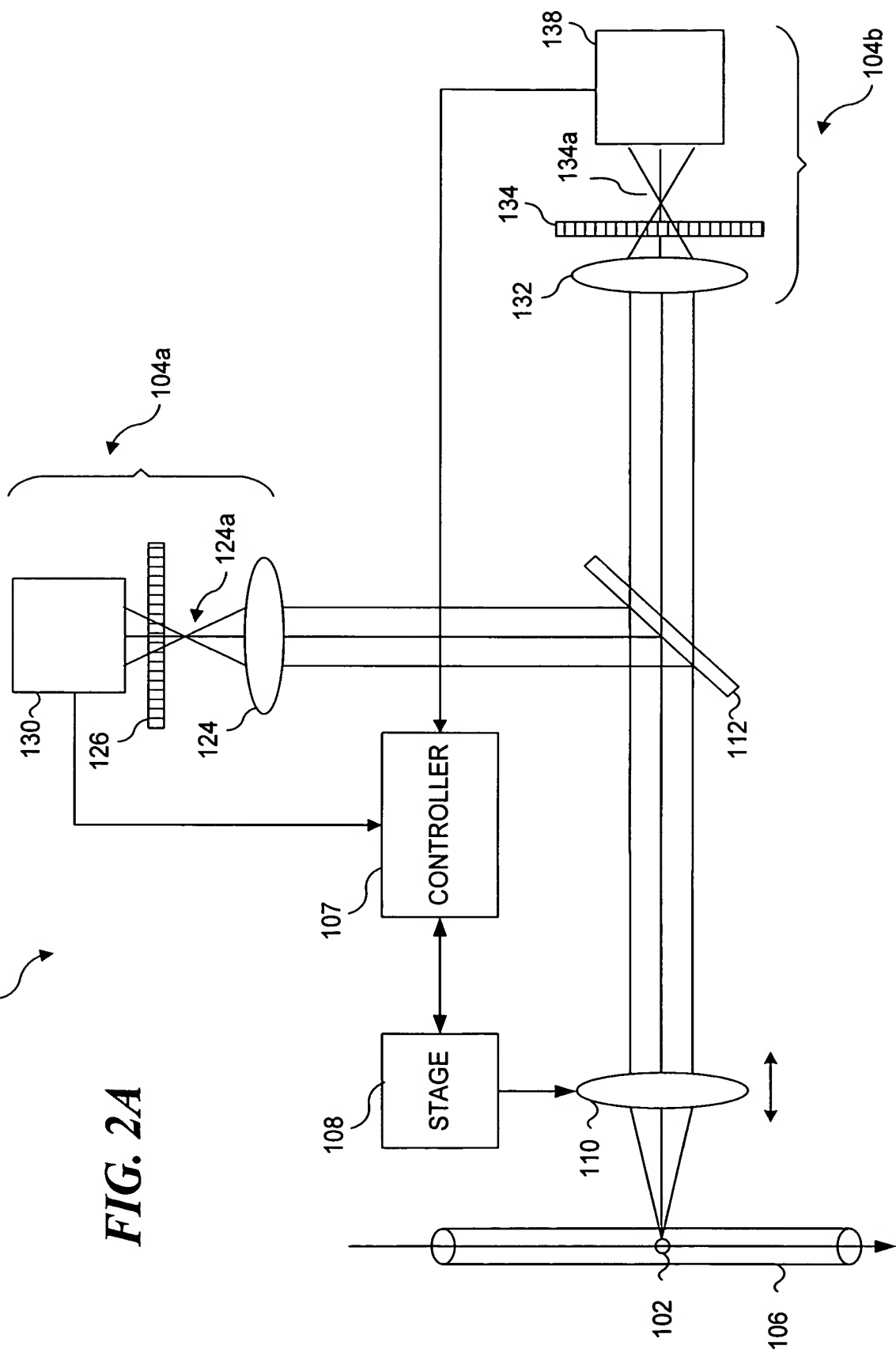
**FIG. 1B**

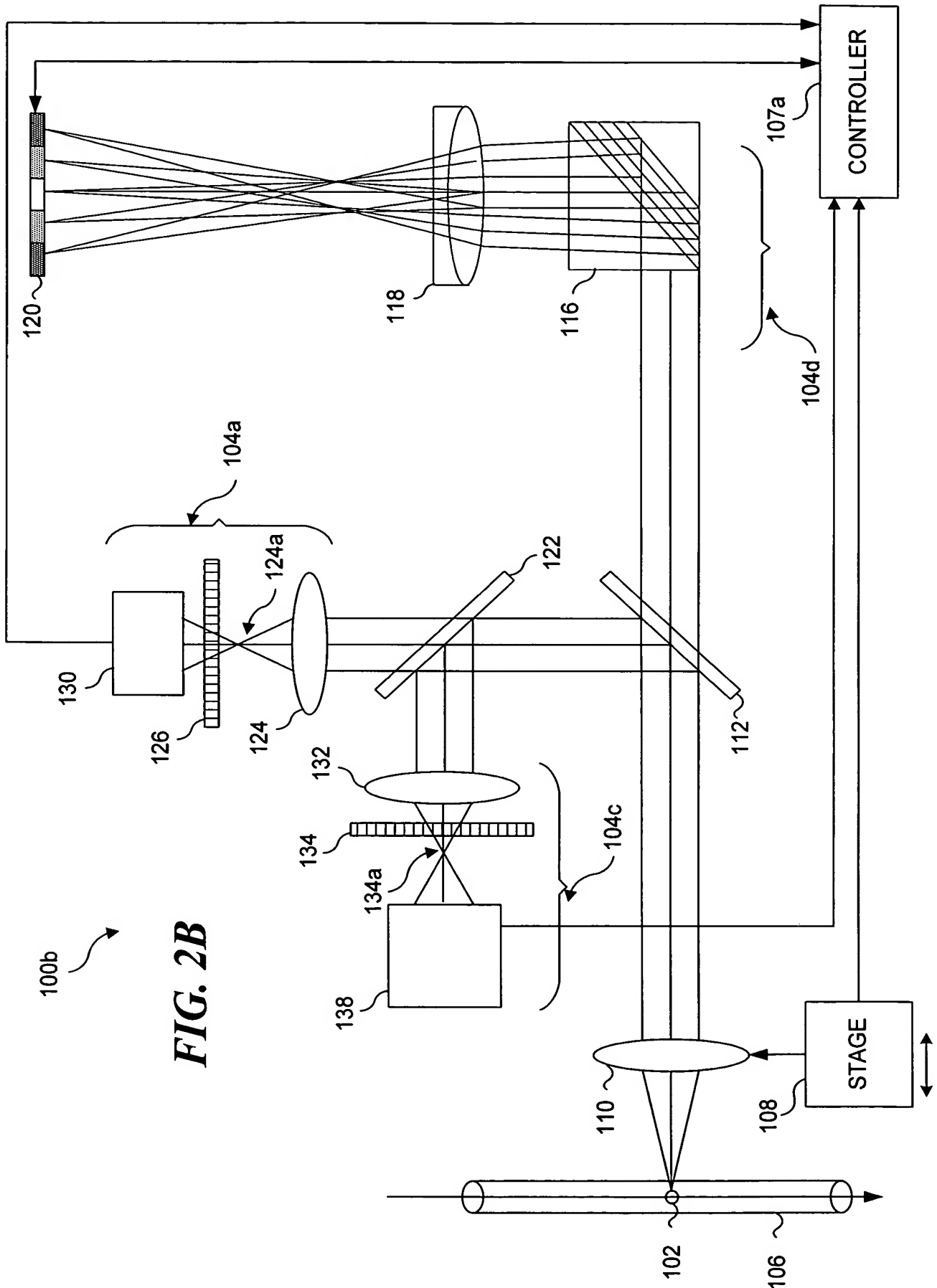


**FIG. 1C**

100a

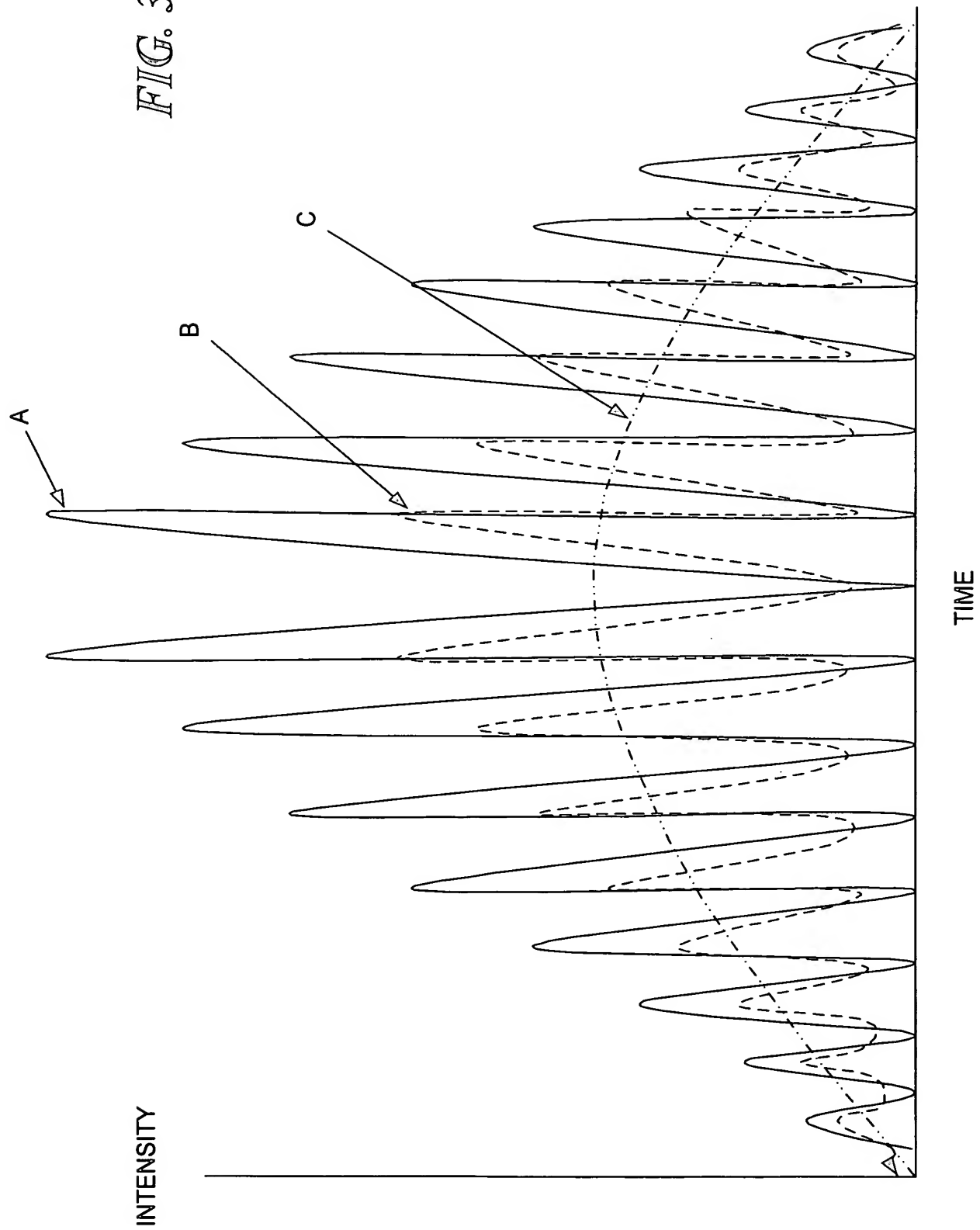
FIG. 2A

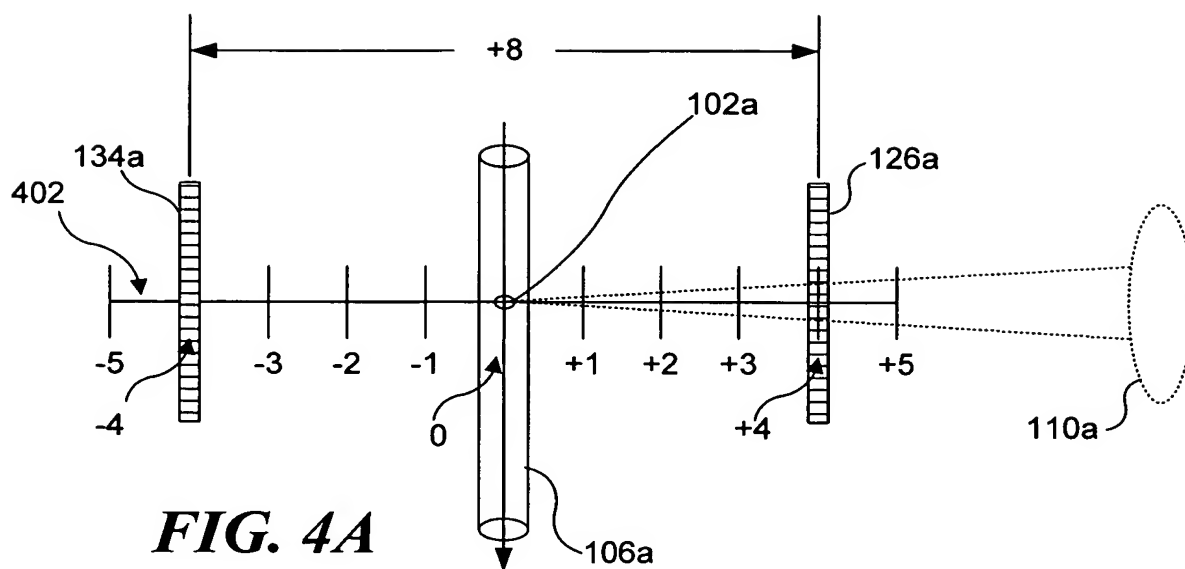




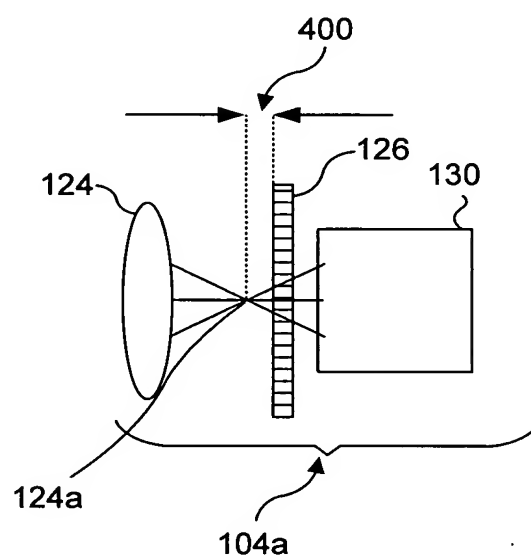
**FIG. 2B**

FIG. 3

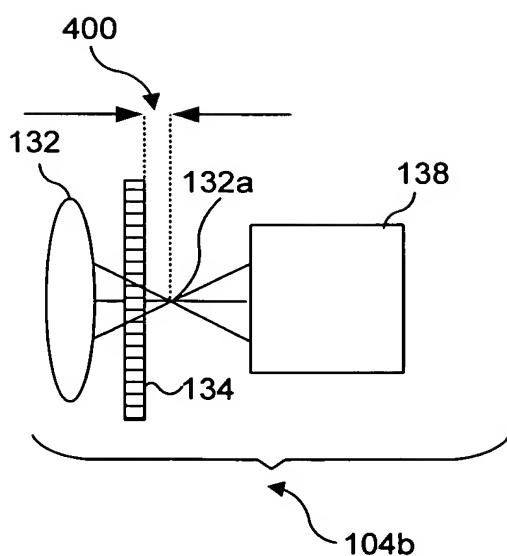




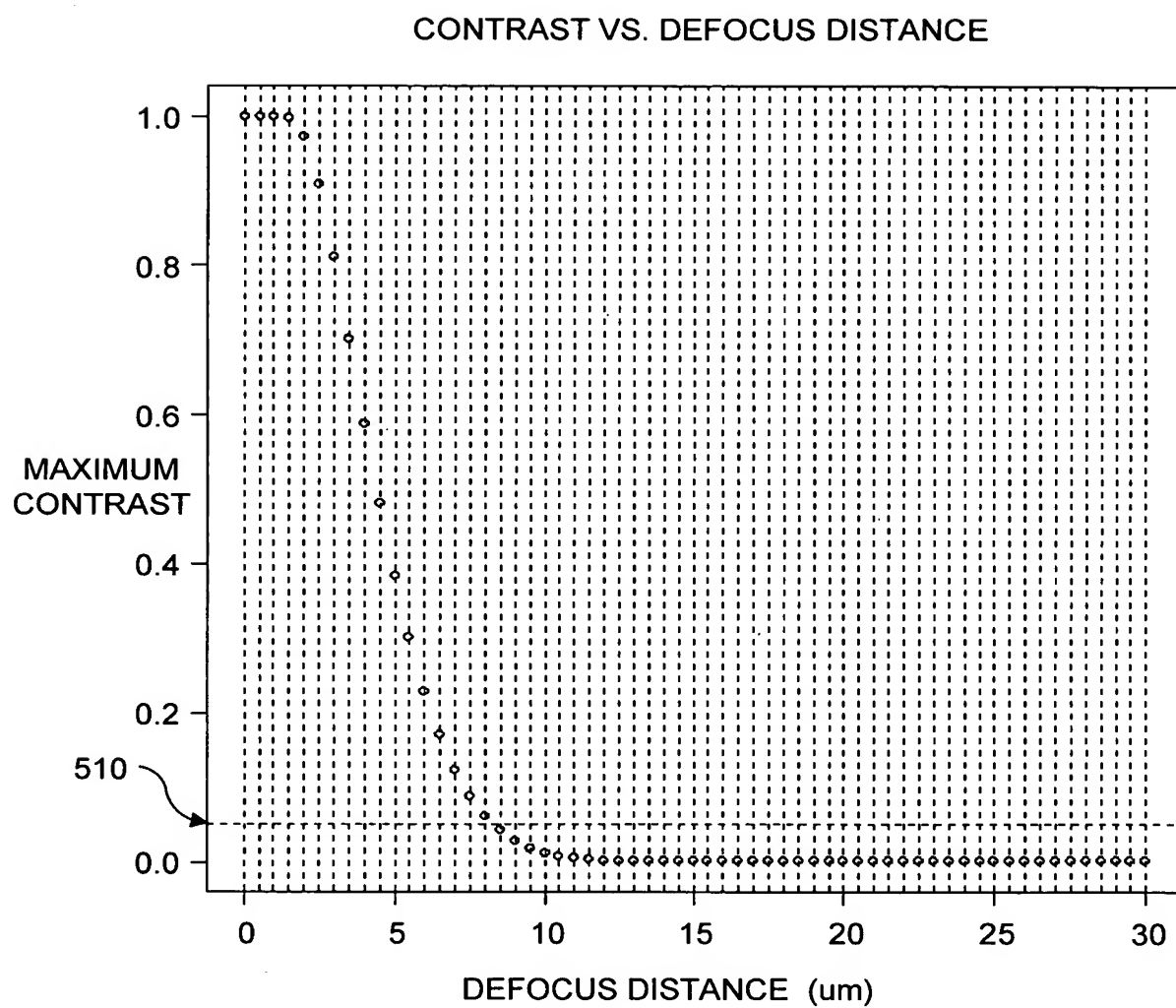
**FIG. 4A**



**FIG. 4B**

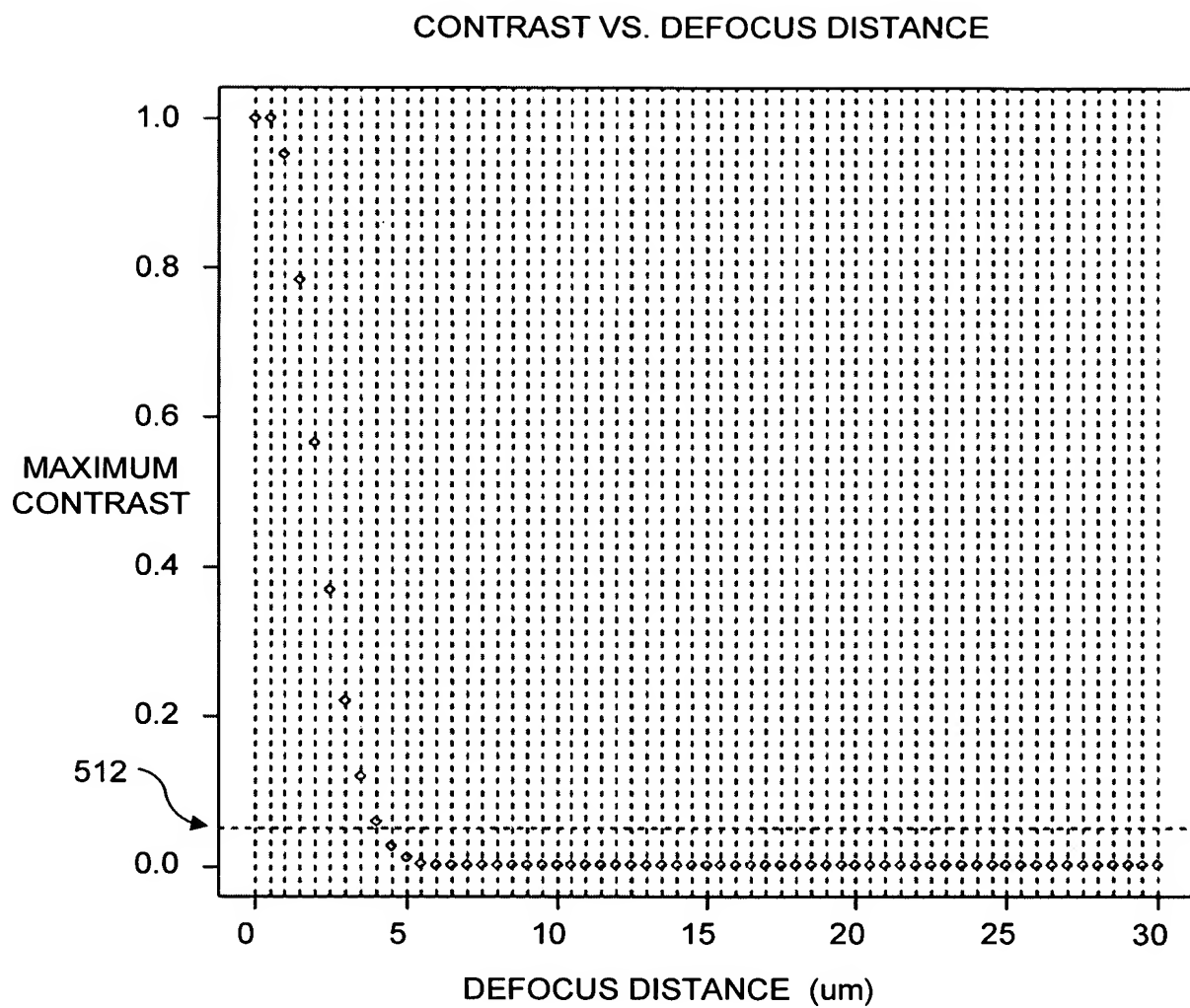


**FIG. 4C**

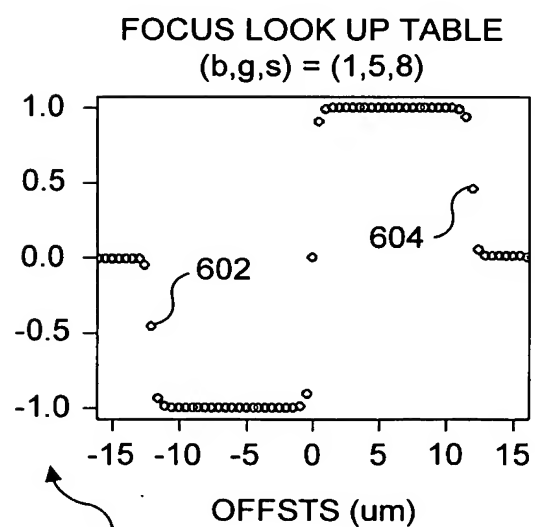
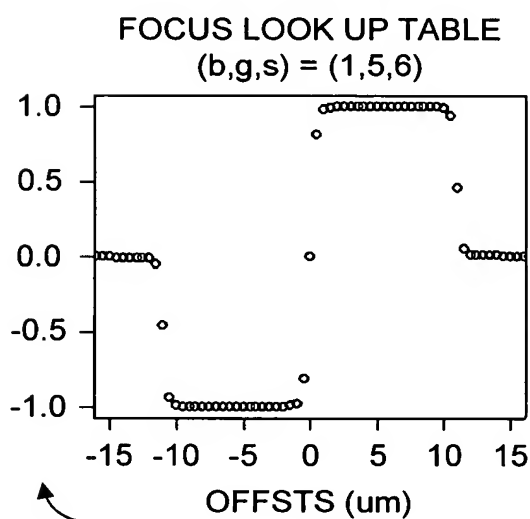
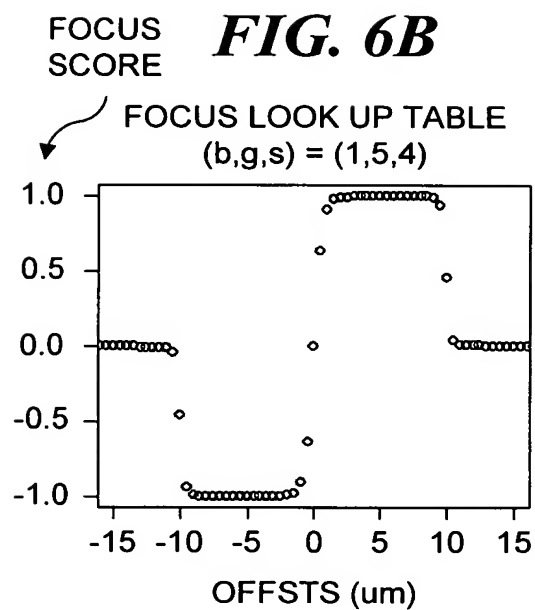
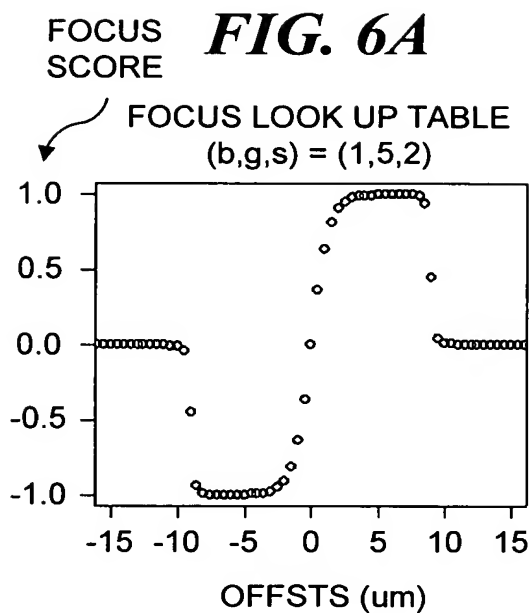


***FIG. 5A***





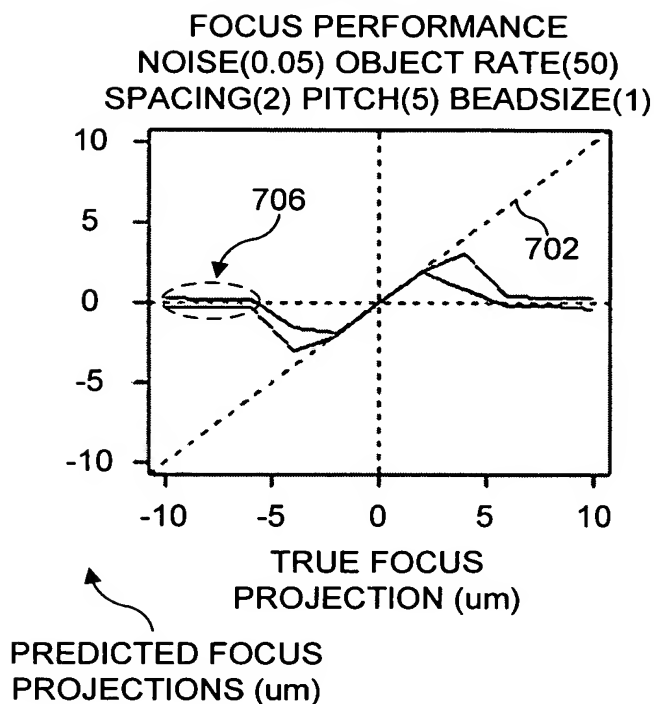
***FIG. 5B***



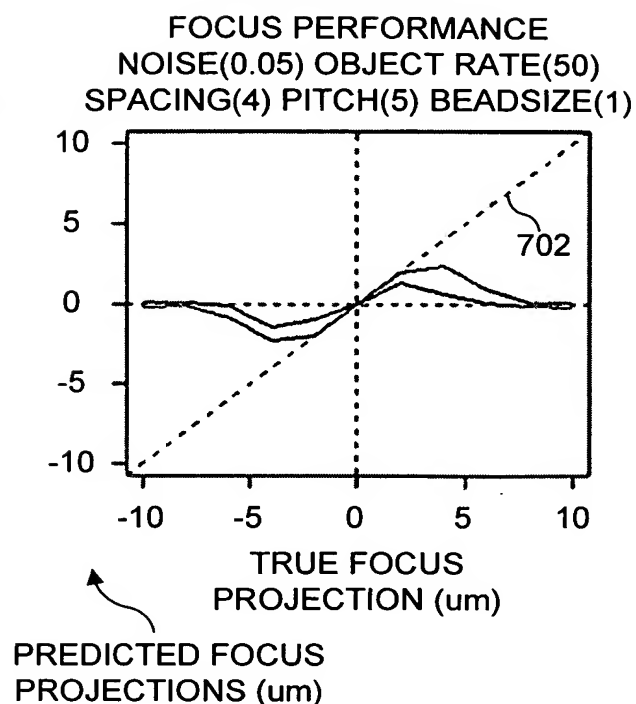
FOCUS SCORE **FIG. 6C**

FOCUS SCORE **FIG. 6D**

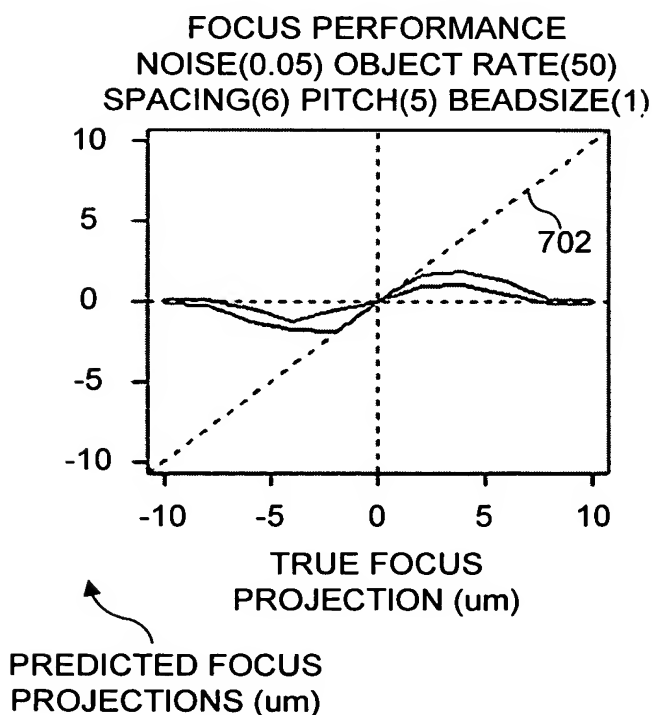
**FIG. 7A**



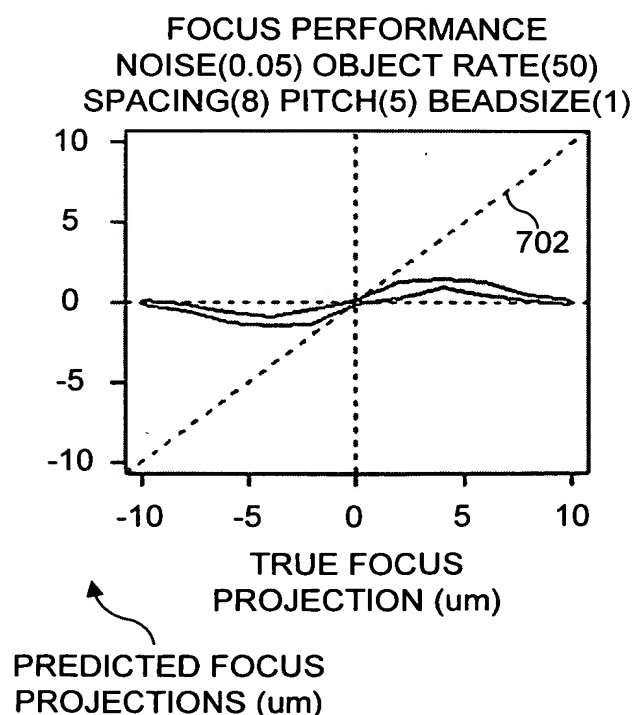
**FIG. 7B**



**FIG. 7C**

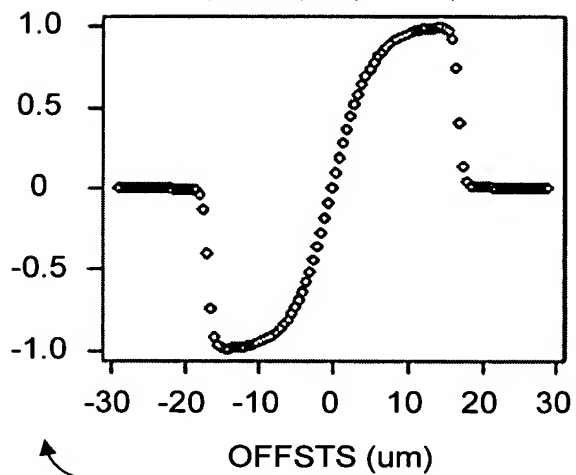


**FIG. 7D**



**FIG. 8A**

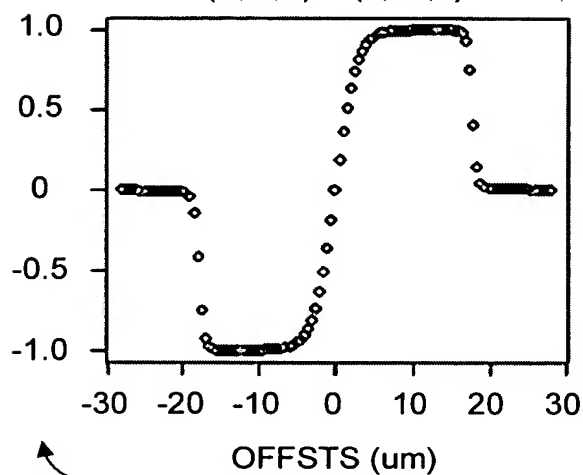
FOCUS LOOK UP TABLE  
(B,G,S) = (1,10,2)



FOCUS SCORE

**FIG. 8B**

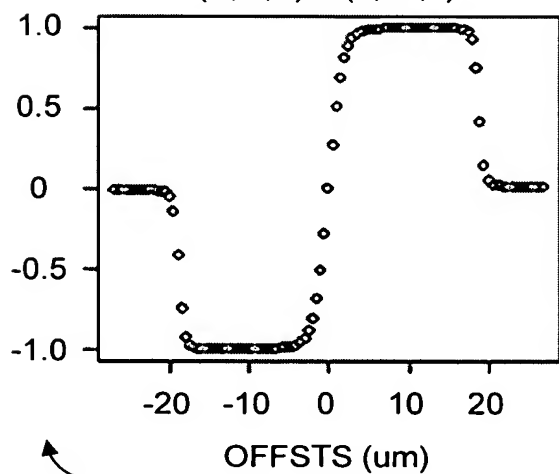
FOCUS LOOK UP TABLE  
(B,G,S) = (1,10,4)



FOCUS SCORE

**FIG. 8C**

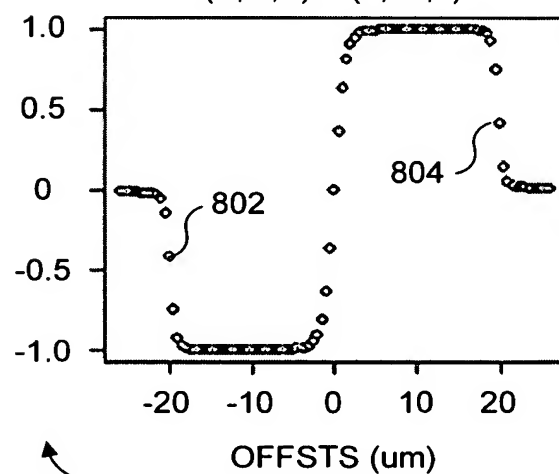
FOCUS LOOK UP TABLE  
(B,G,S) = (1,10,6)



FOCUS SCORE

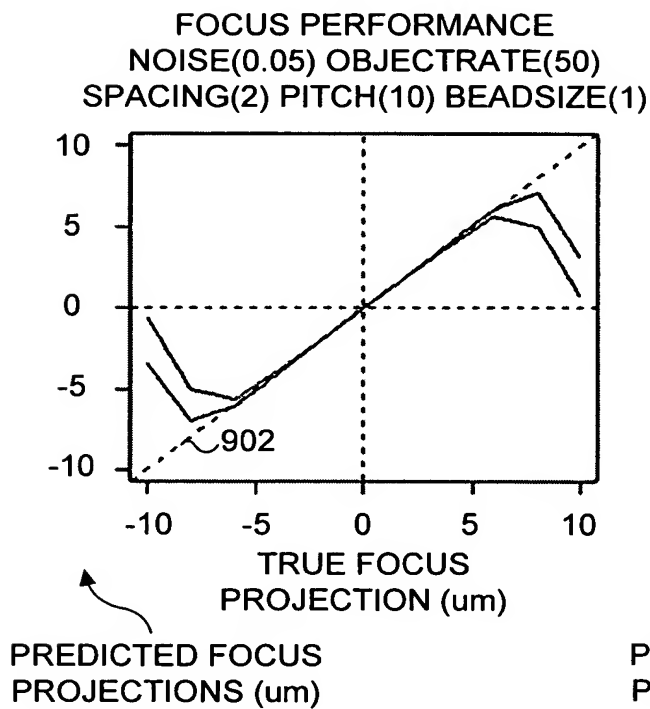
**FIG. 8D**

FOCUS LOOK UP TABLE  
(B,G,S) = (1,10,8)

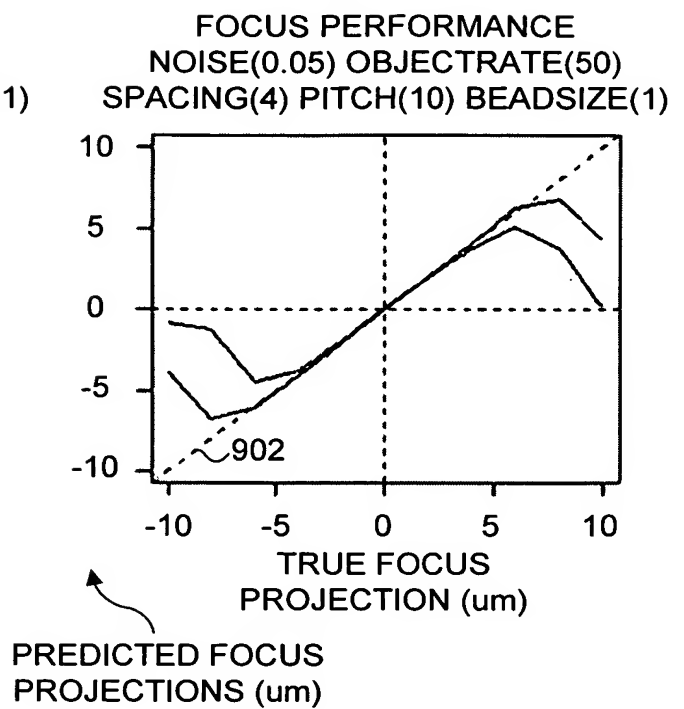


FOCUS SCORE

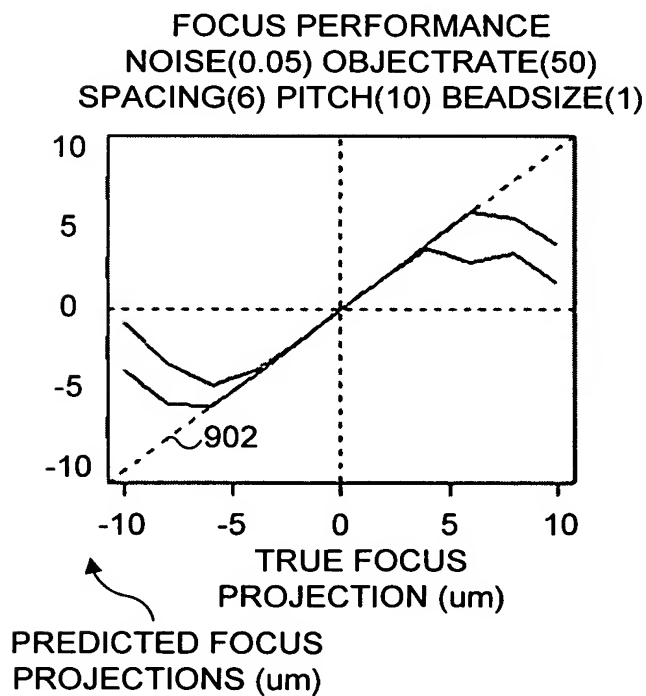
**FIG. 9A**



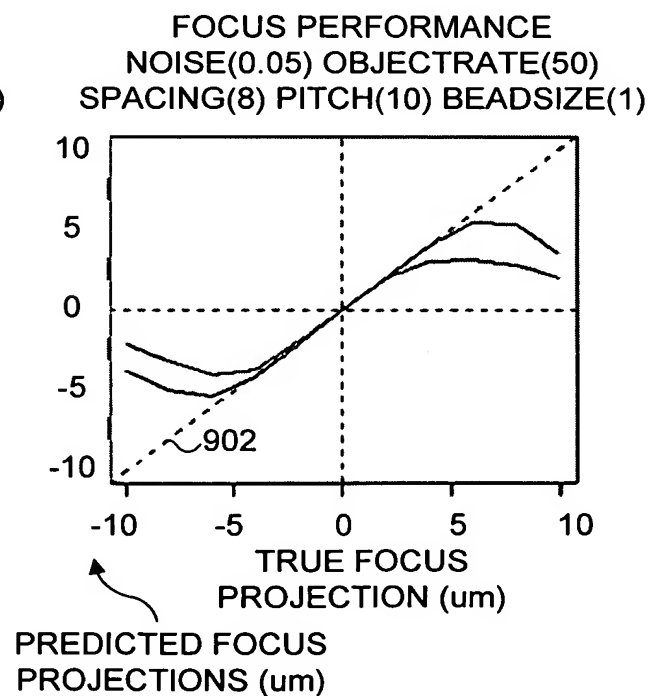
**FIG. 9B**



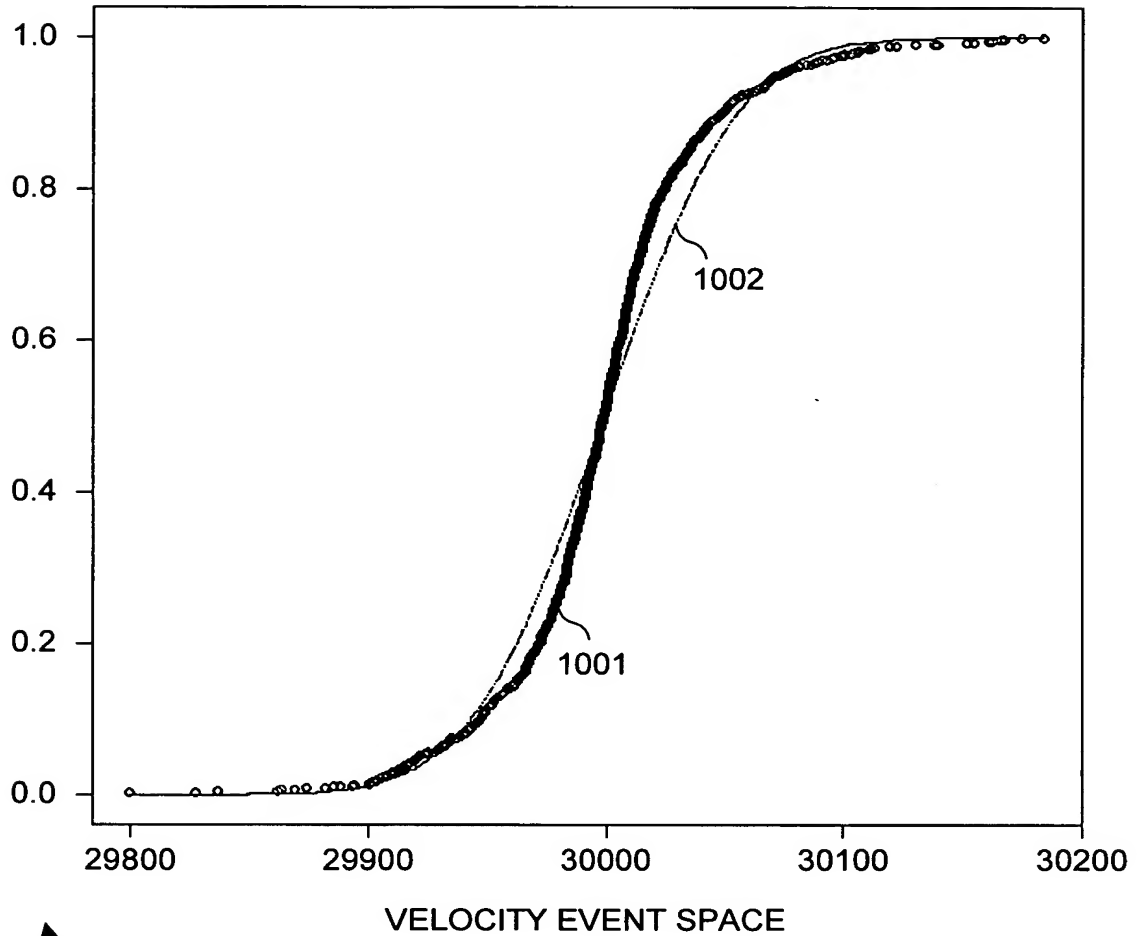
**FIG. 9C**



**FIG. 9D**



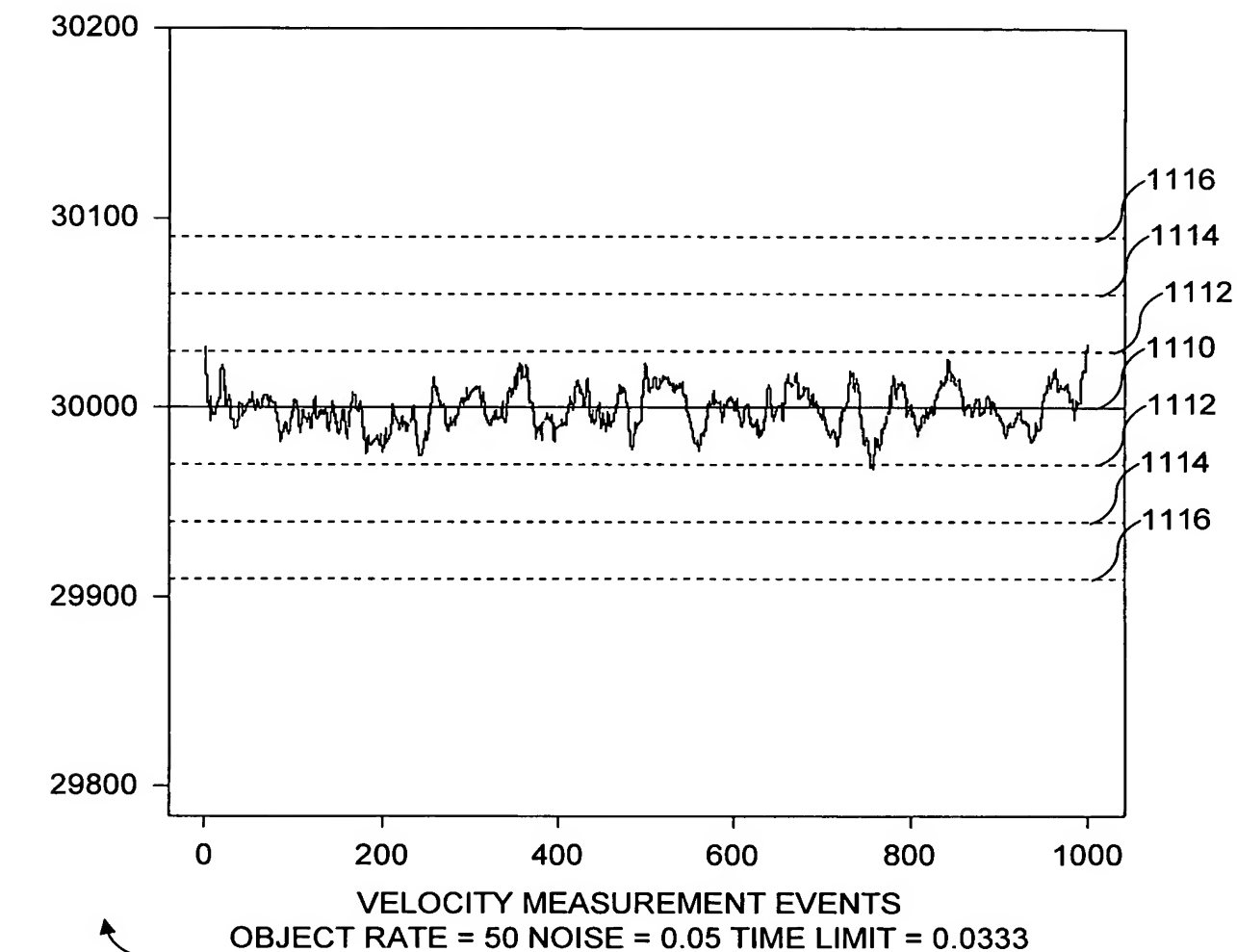
VELOCITY REPORT #1  
VELOCITY DISTRIBUTION: GAUSSIAN (29999.1,43.9)



CUMULATIVE  
DISTRIBUTION  
ESTIMATION

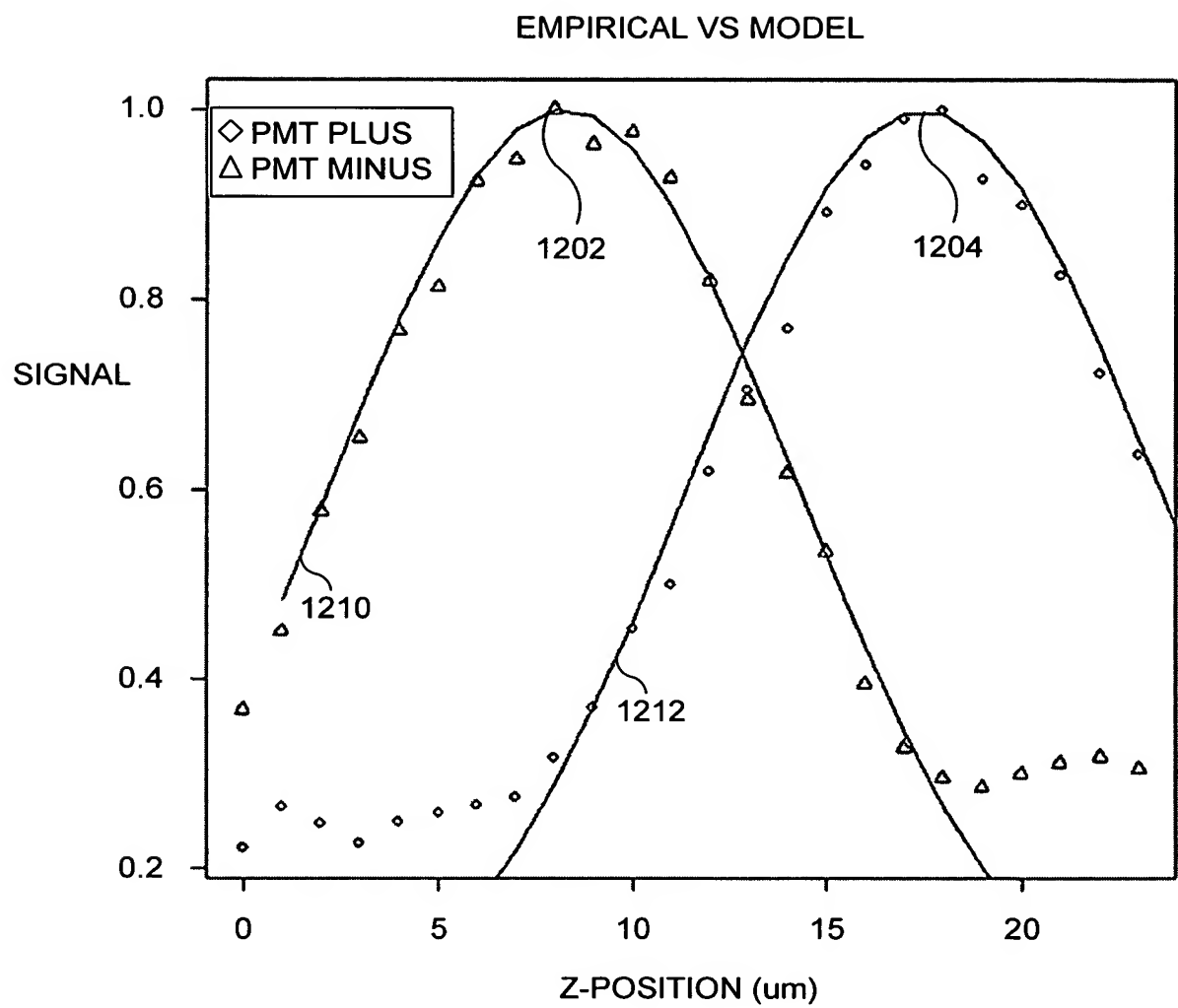
**FIG. 10**

VELOCITY REPORT #1  
FILTERED MEASUREMENT (16) VS. RAW MEASUREMENT



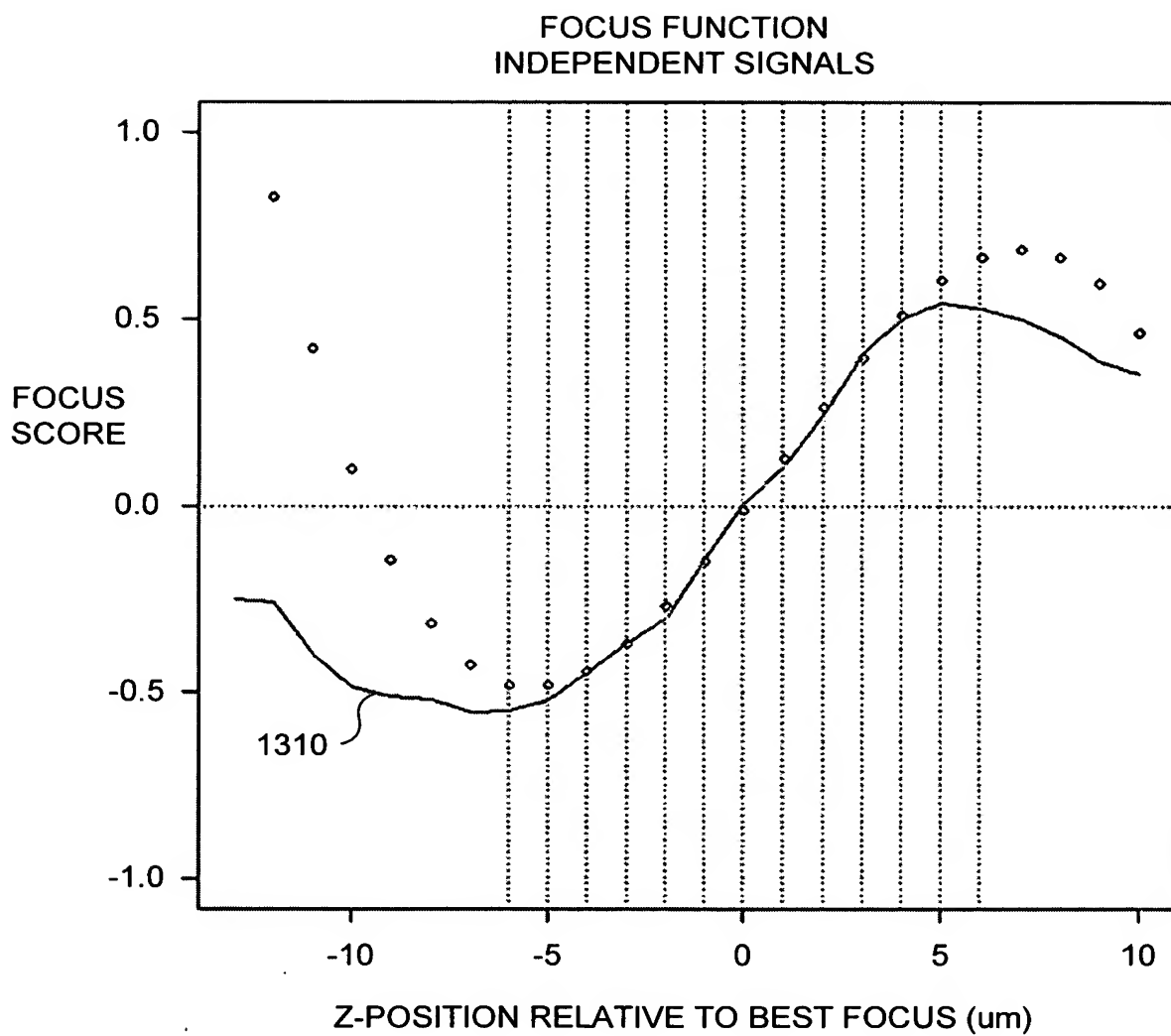
ESTIMATE OF VELOCITY  
(30000  $\mu\text{m/s}$ )

**FIG. 11**

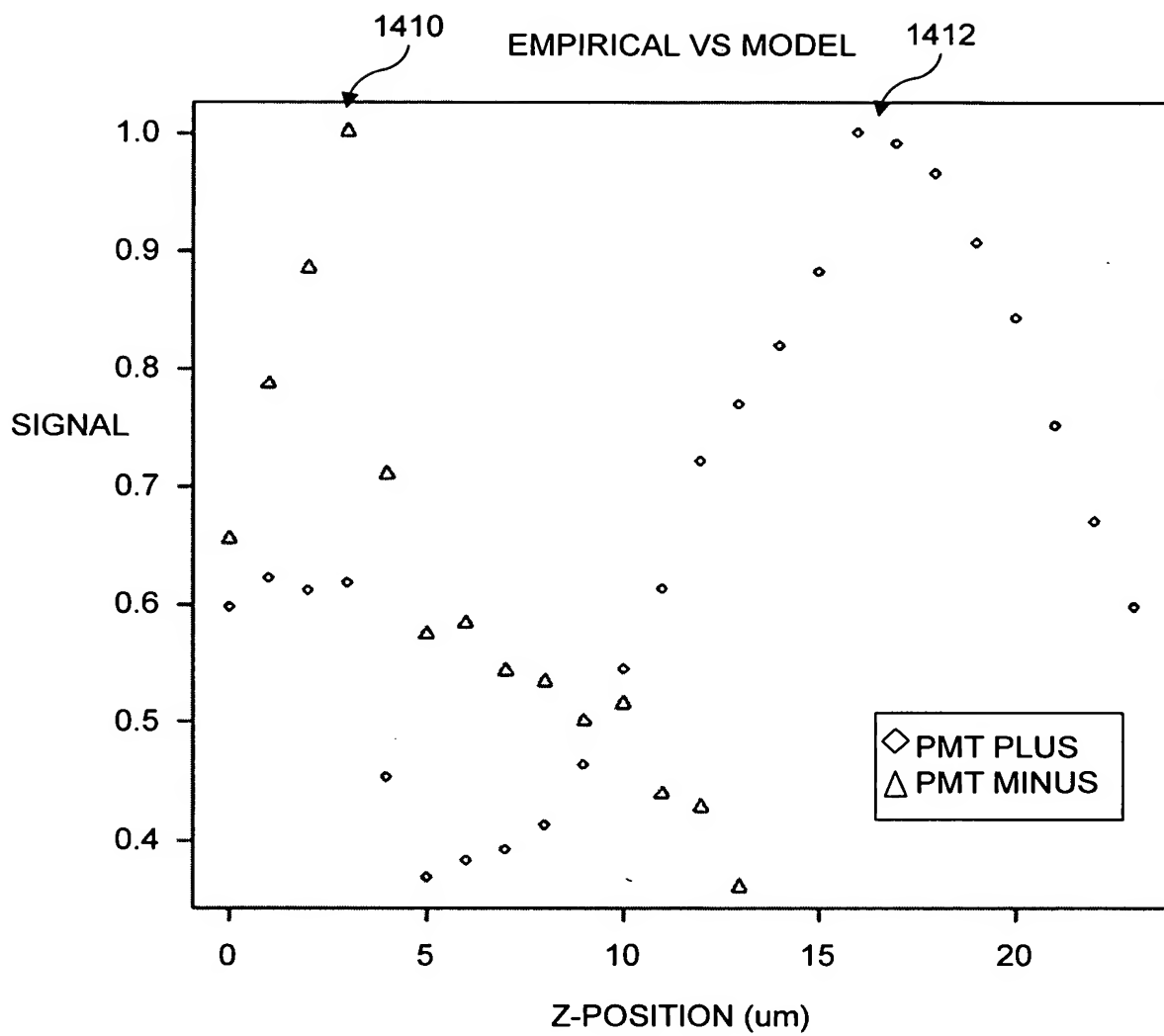


***FIG. 12***

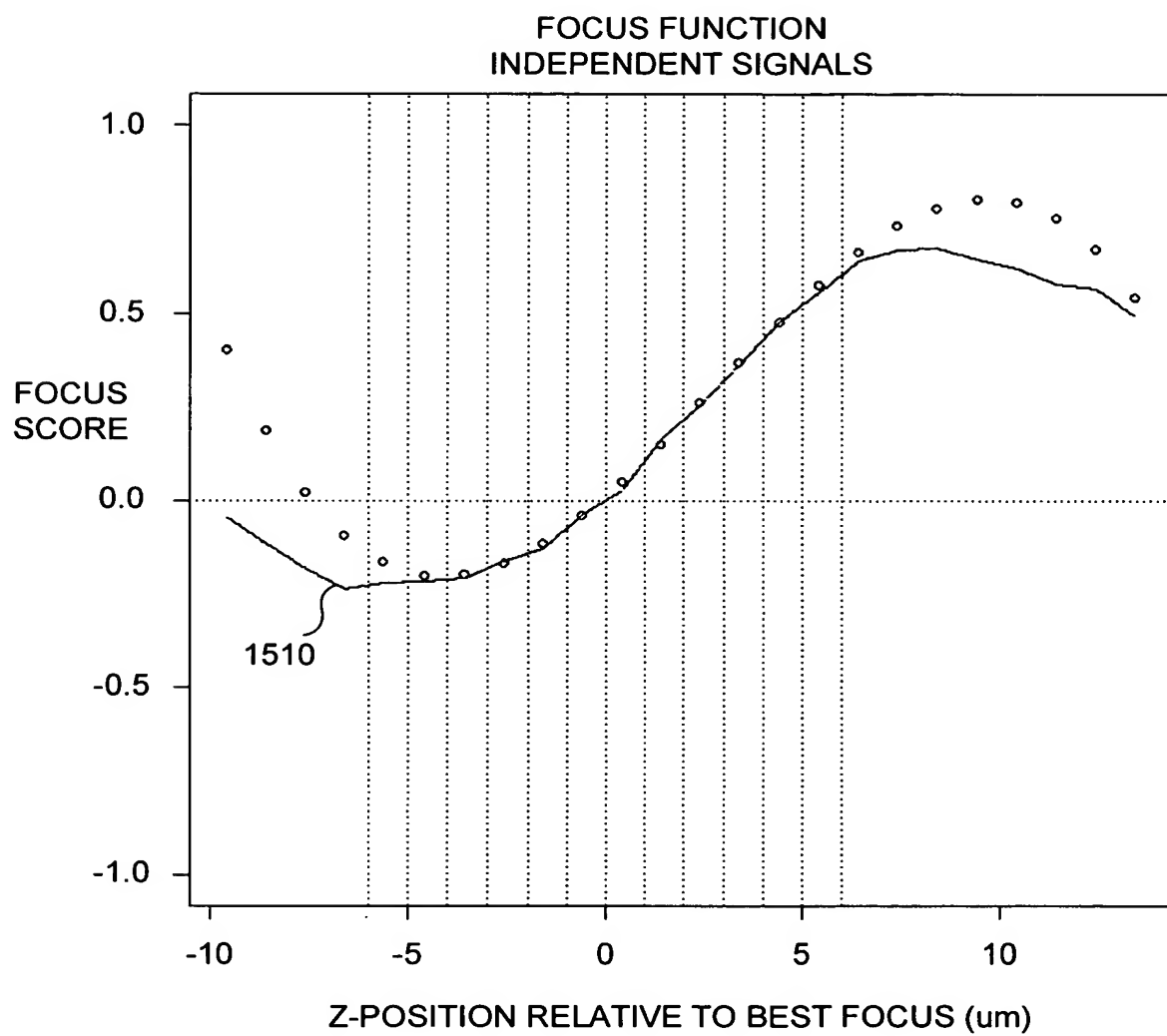




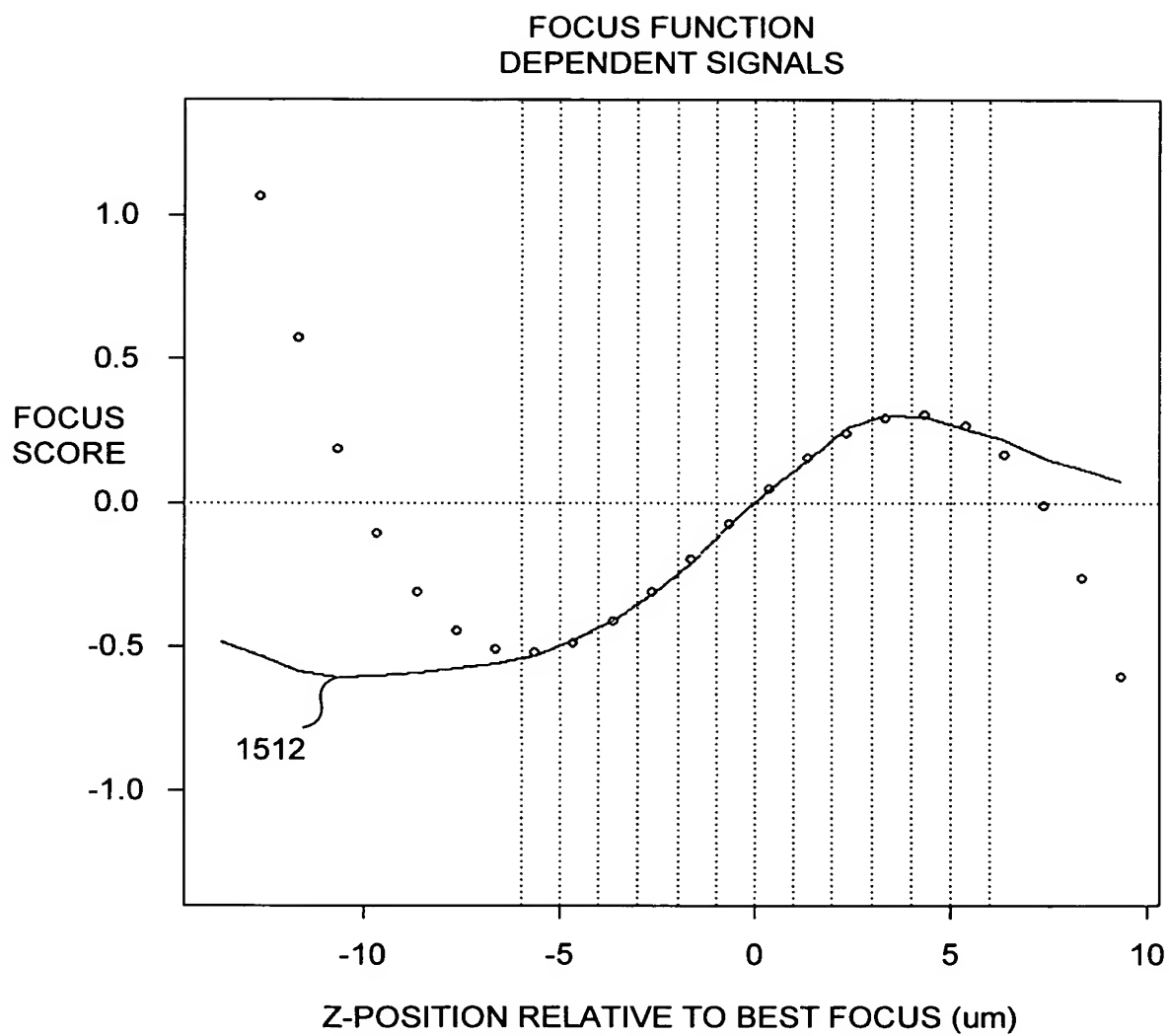
***FIG. 13***



**FIG. 14**

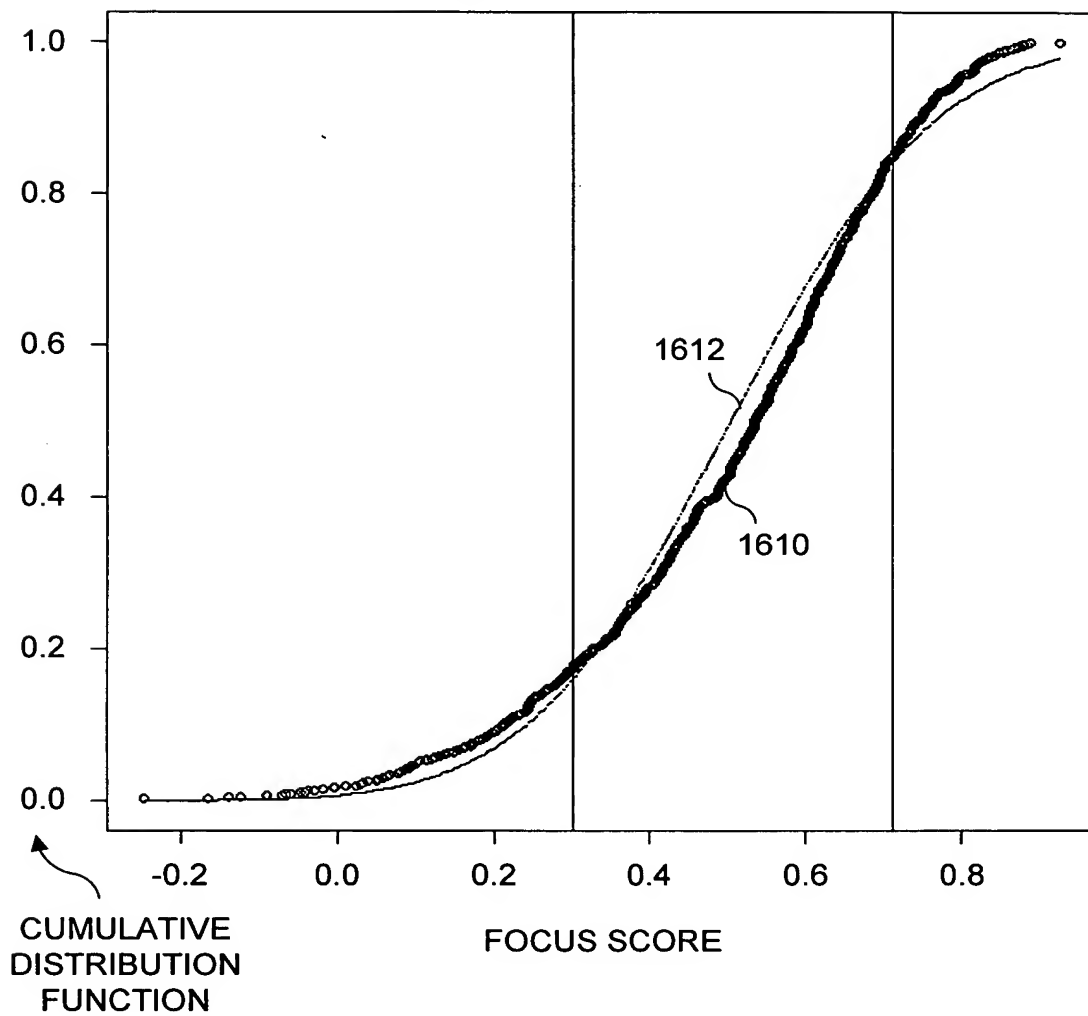


***FIG. 15A***



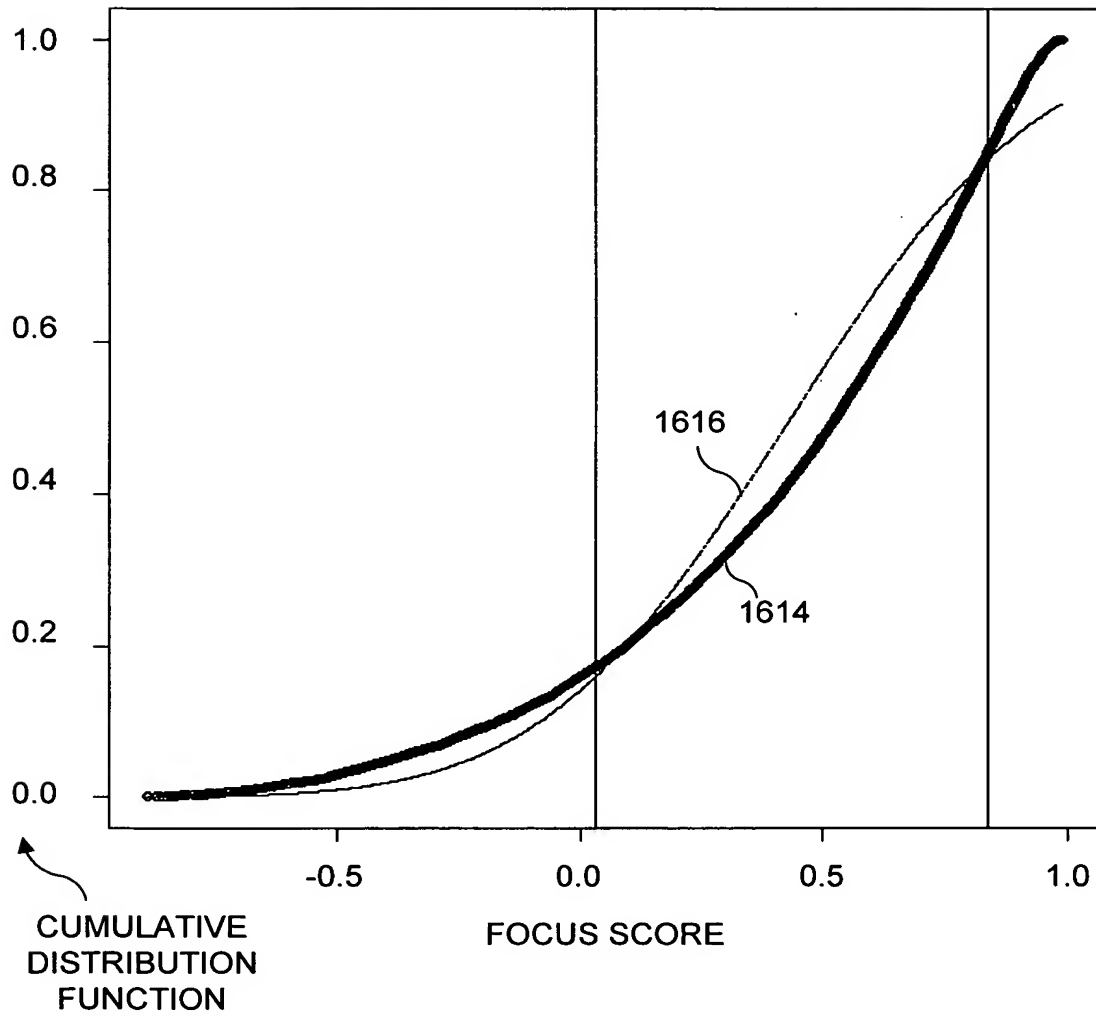
***FIG. 15B***

DISTRIBUTION OF SCORES  
NOT AT BEST FOCUS

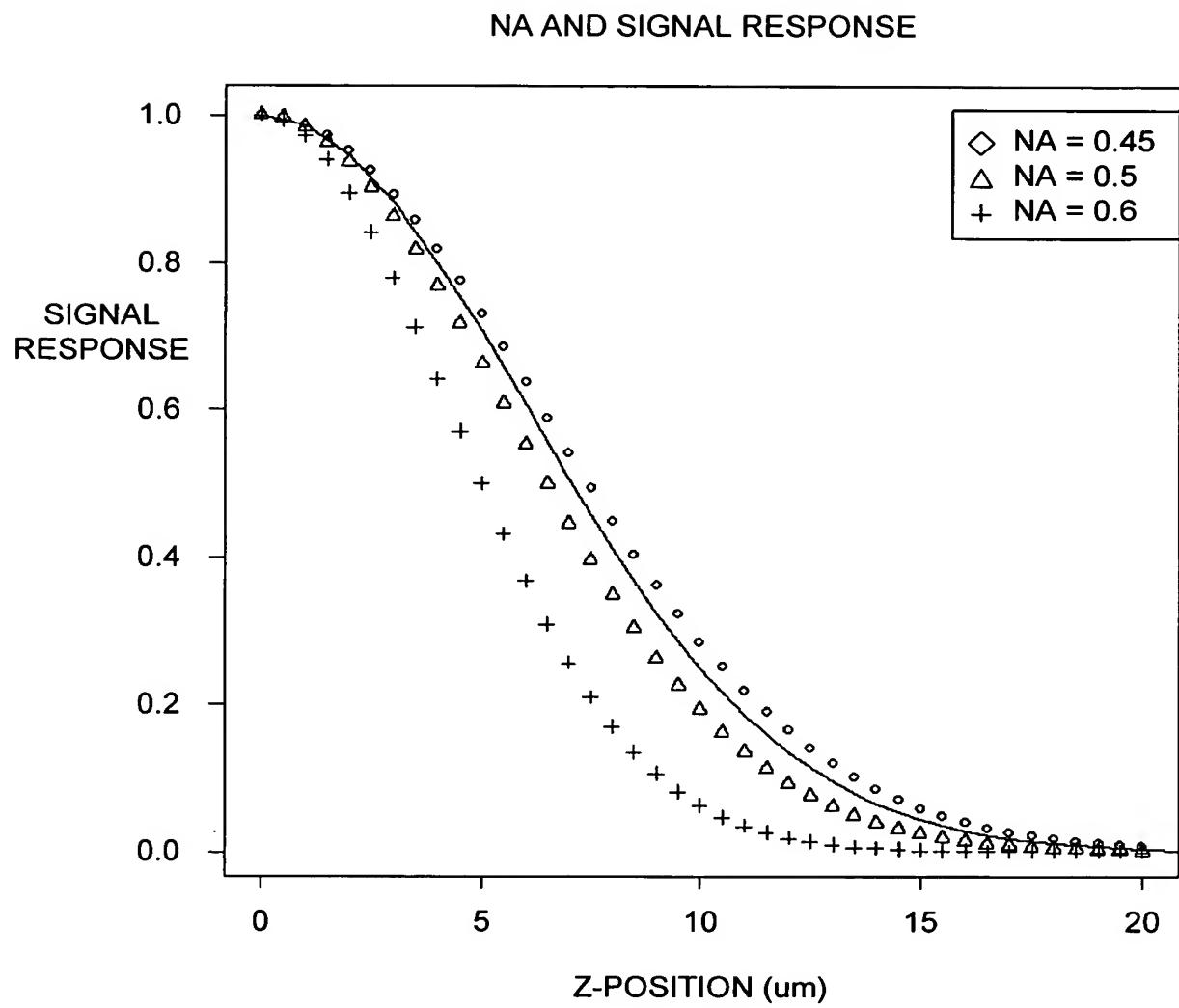


**FIG. 16A**

DISTRIBUTION OF SCORES  
NOT AT BEST FOCUS WITH 10 $\mu$ m CORE

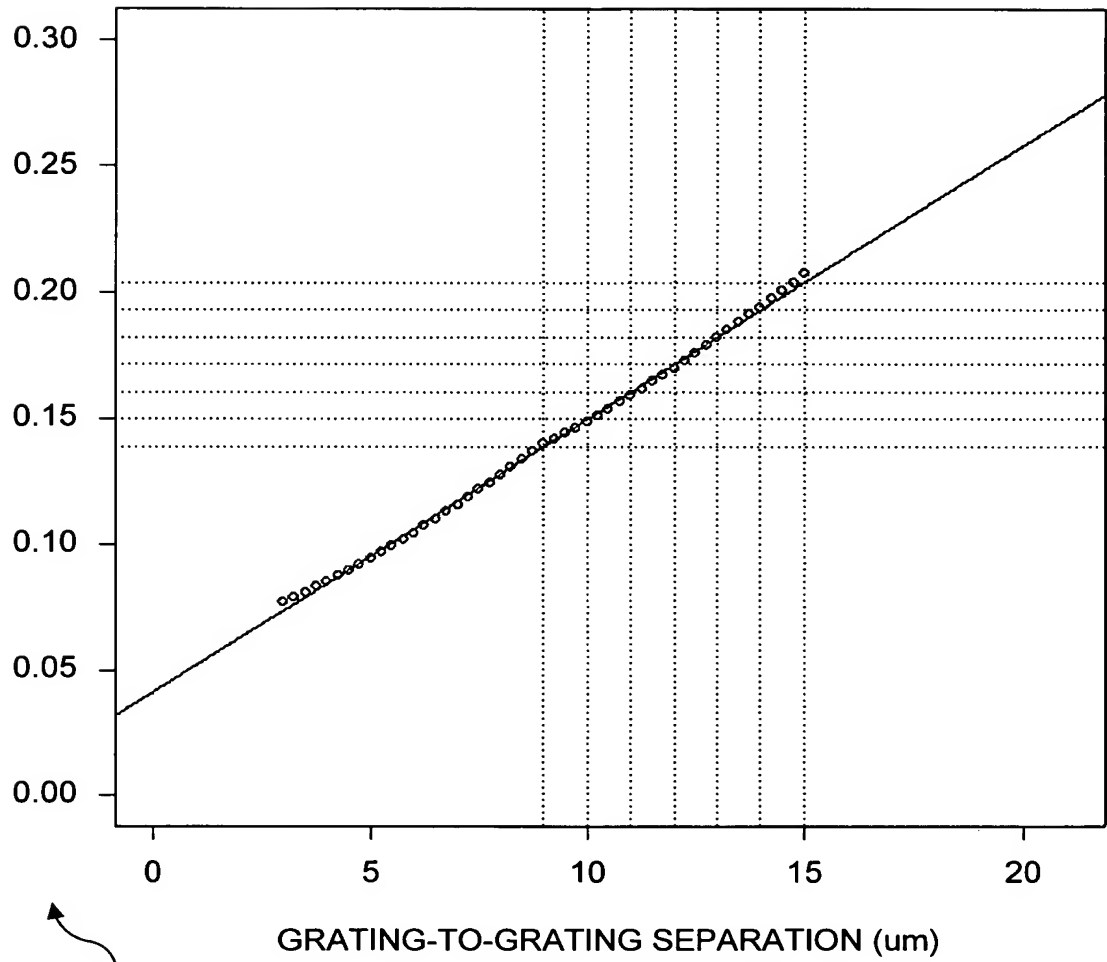


**FIG. 16B**



***FIG. 17***

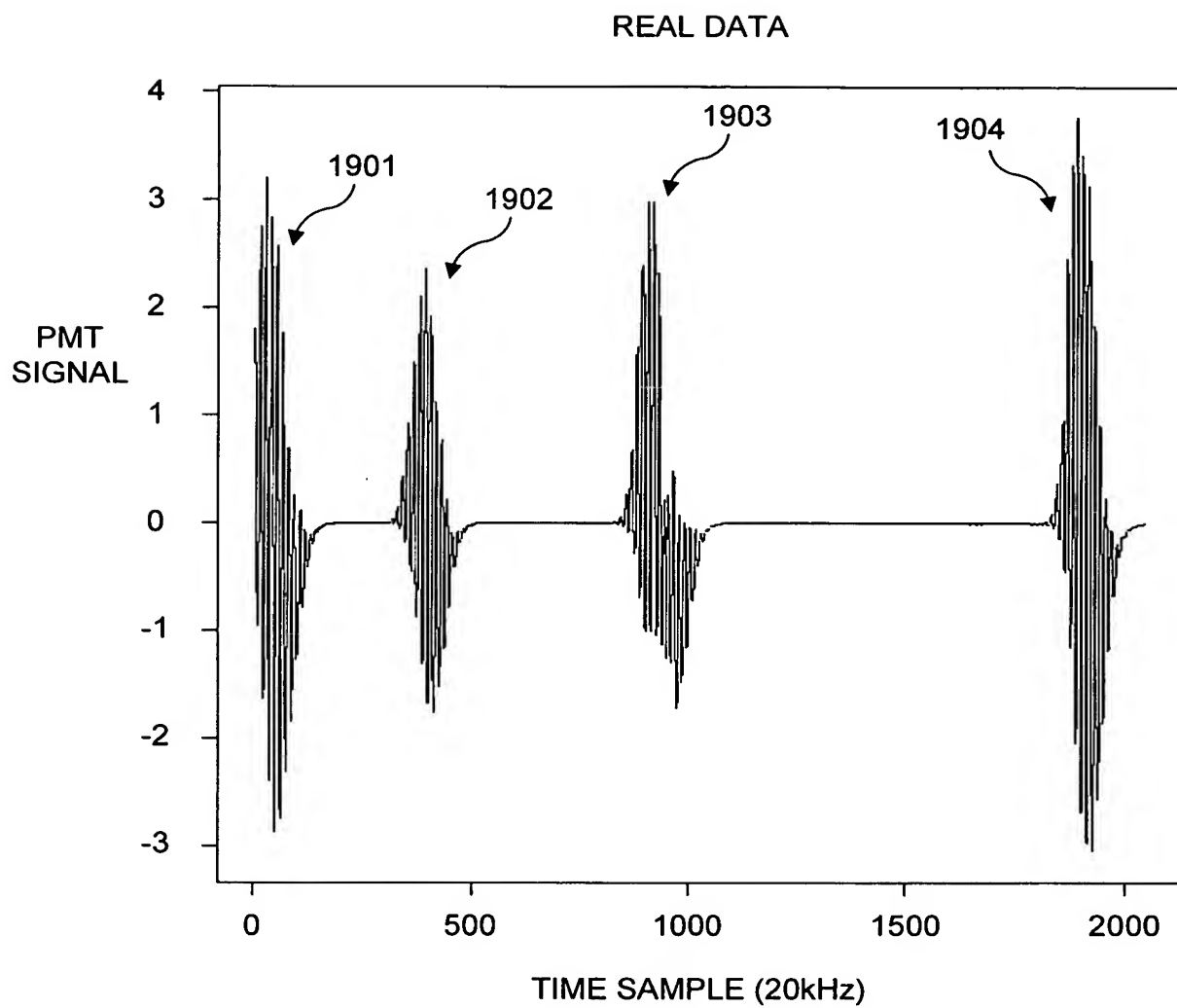
# FOCUS SENSITIVITY VS SEPARATION



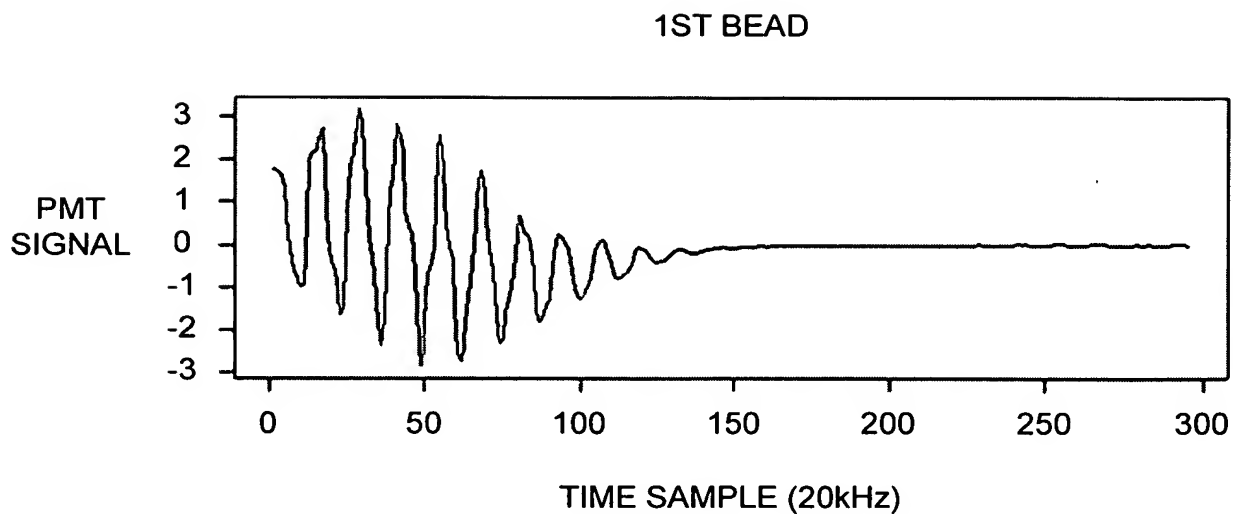
FOCUS  
FUNCTION  
SENSITIVITY

**FIG. 18**

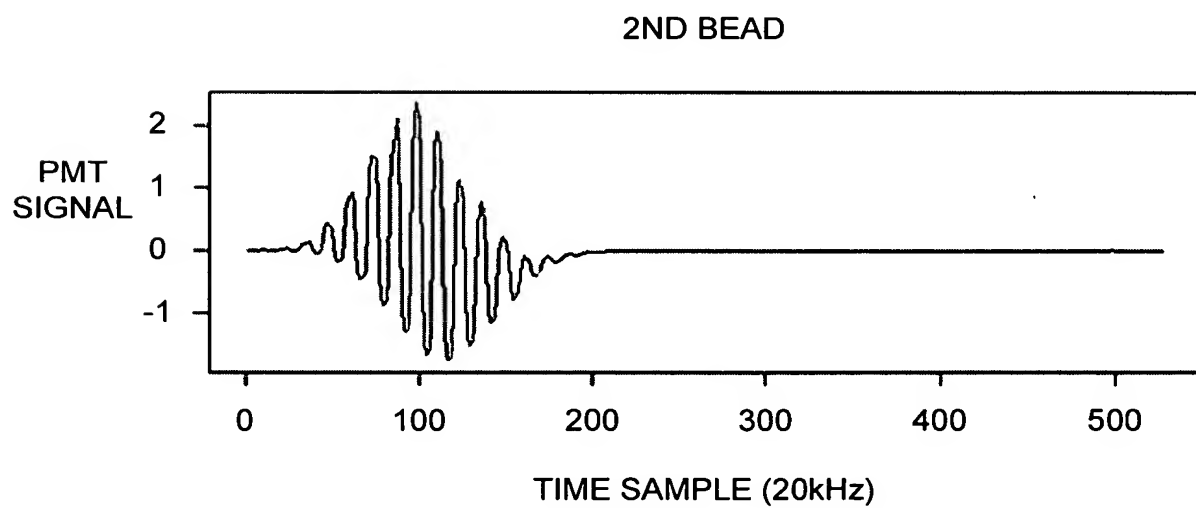




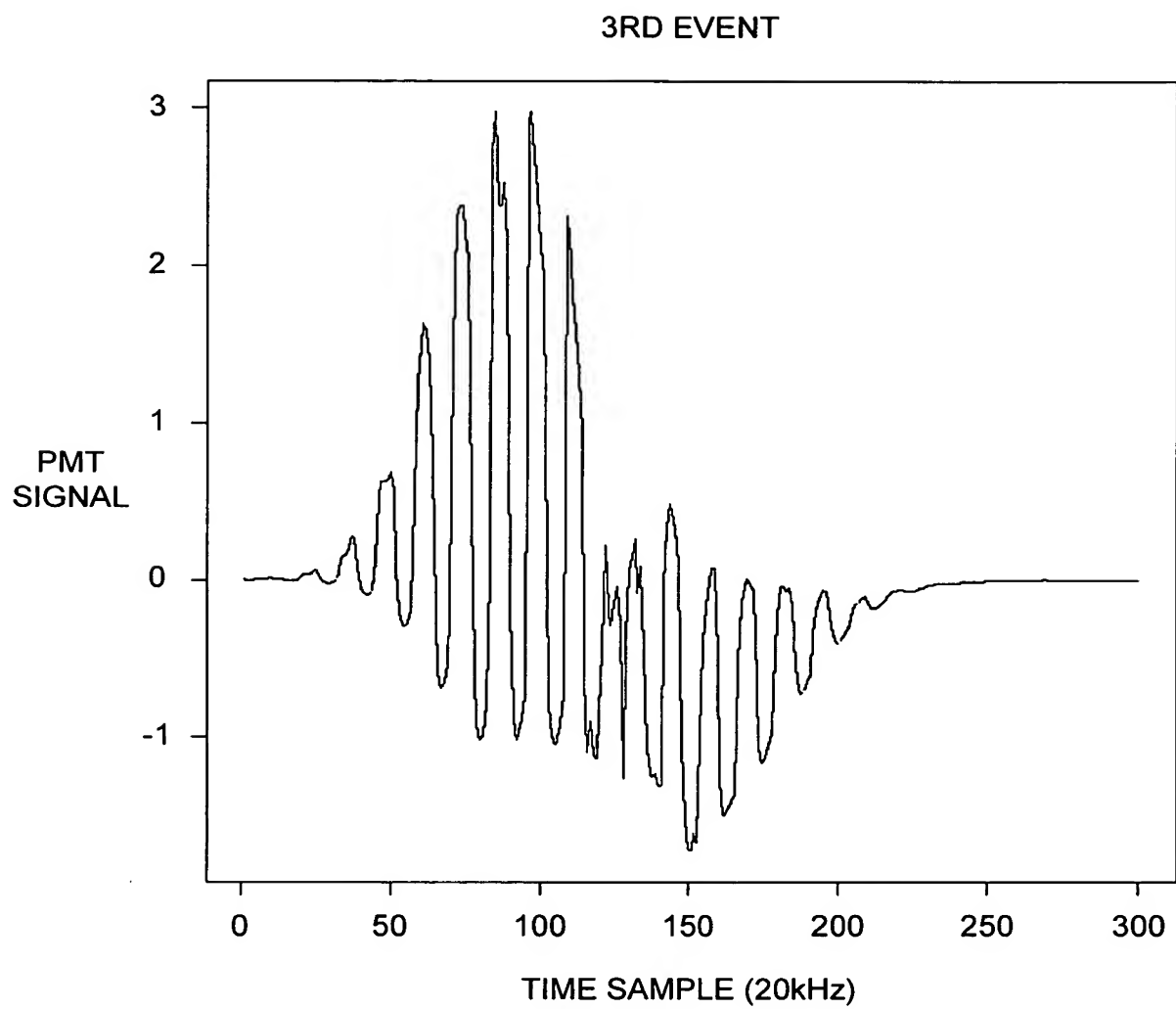
***FIG. 19***



***FIG. 20A***

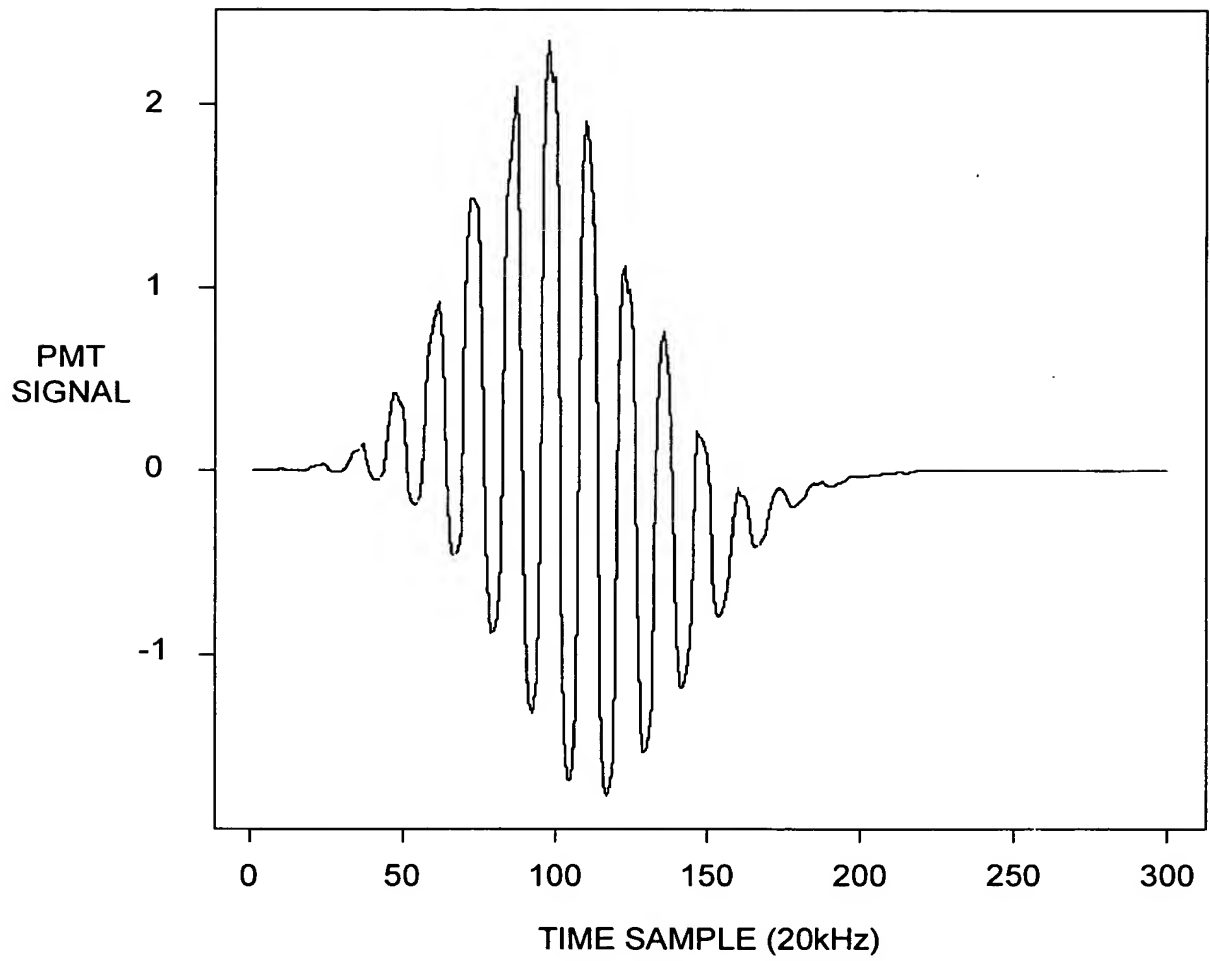


***FIG. 20B***



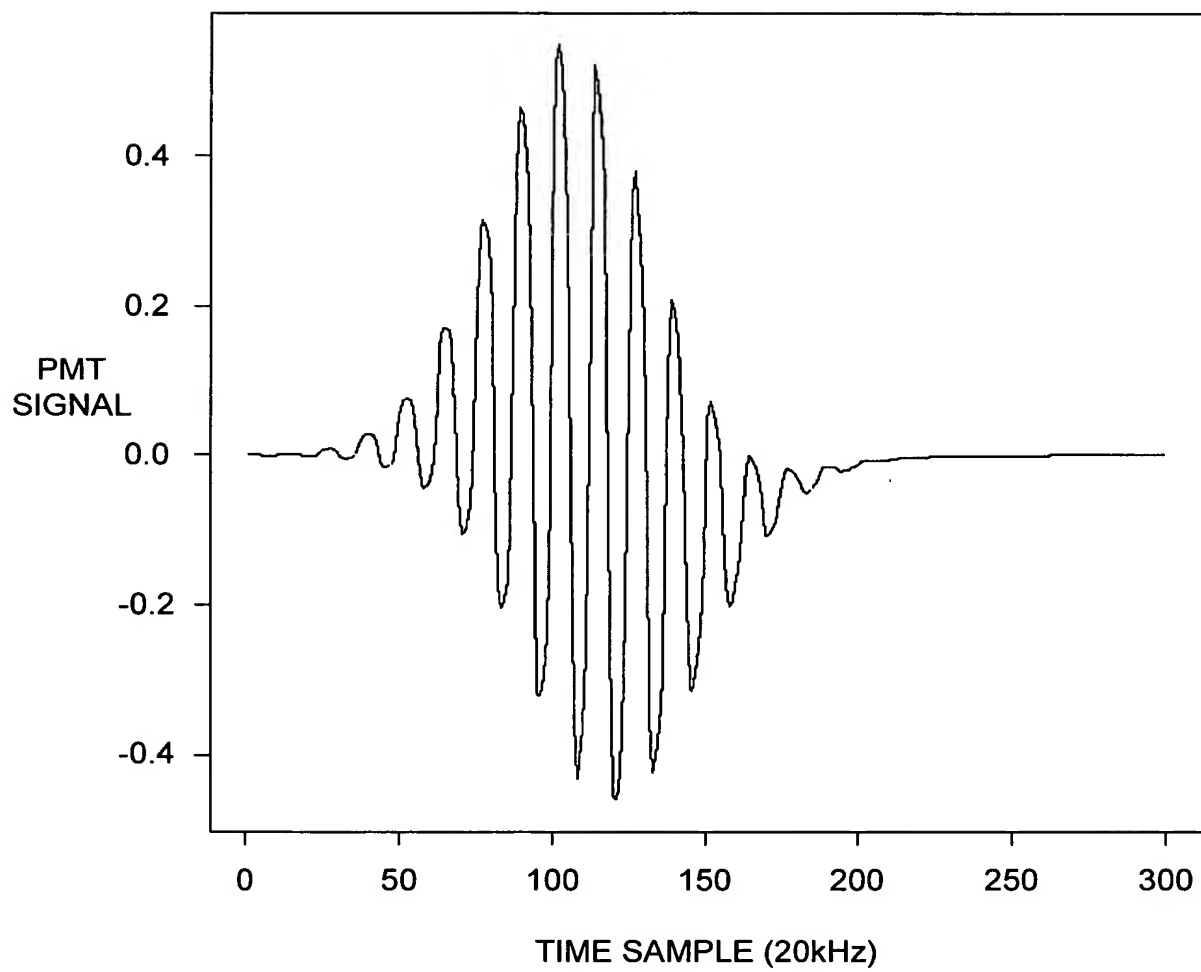
***FIG. 20C***

REAL DATA: 2ND EVENT

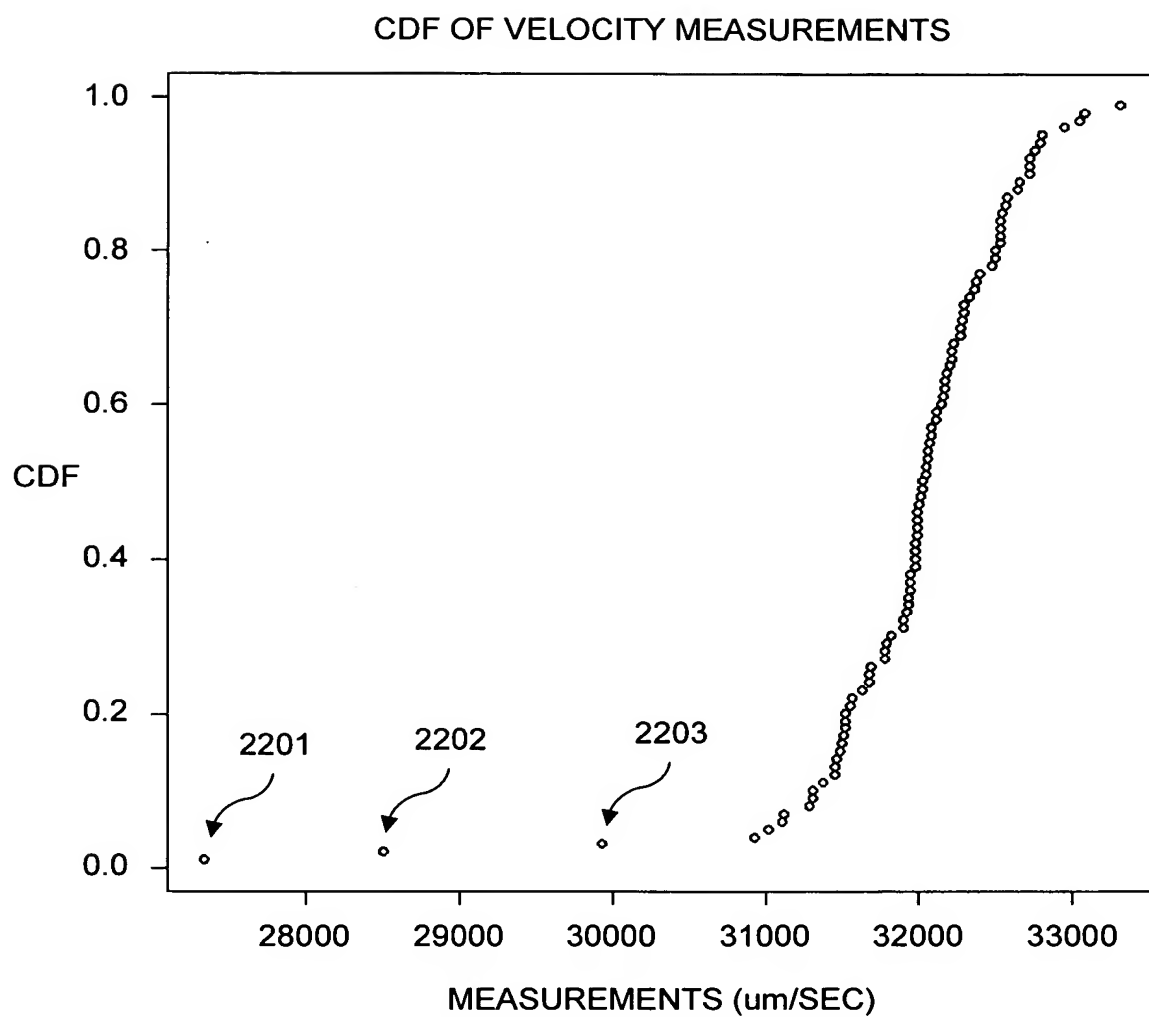


***FIG. 21A***

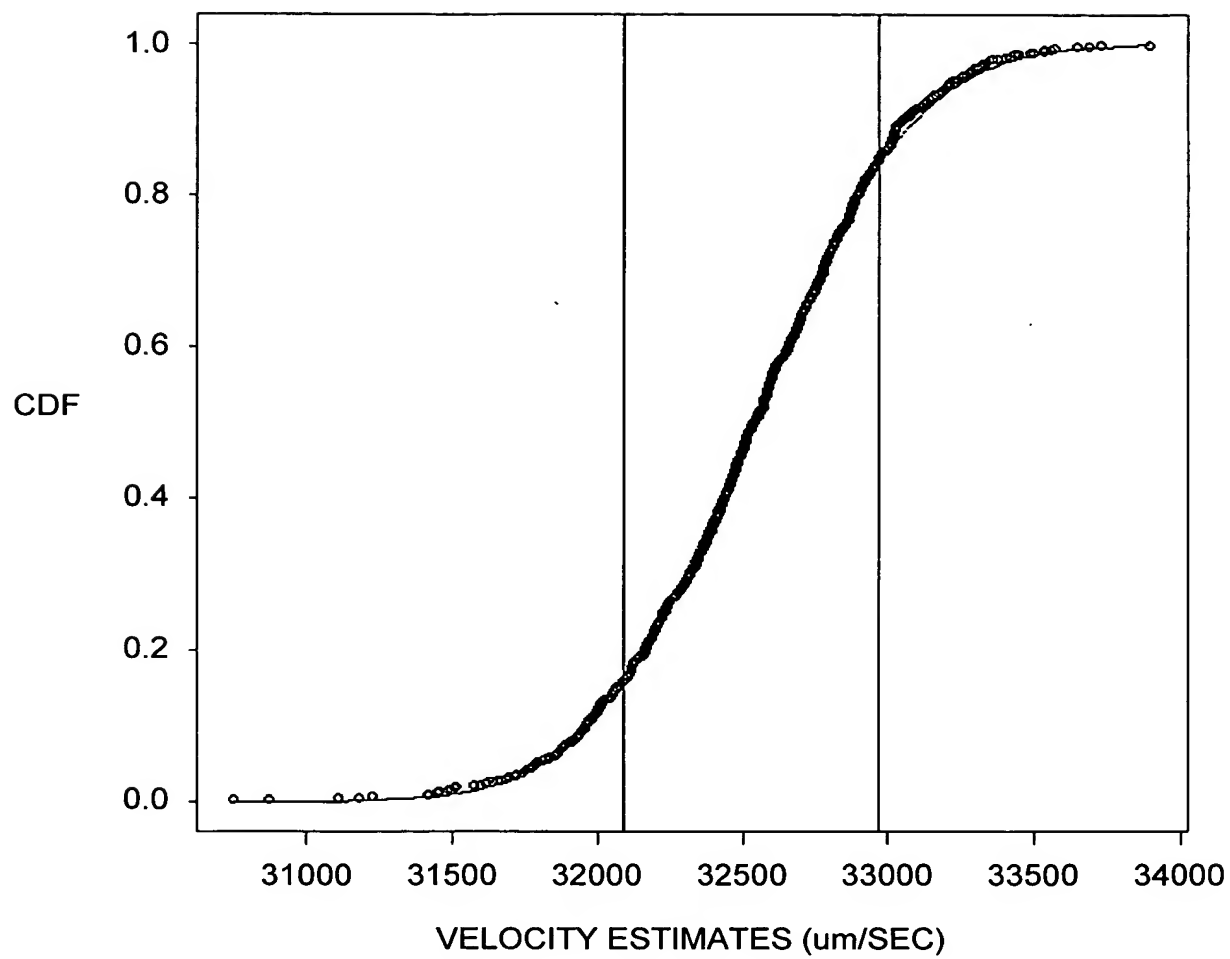
SIMULATED DATA: 2ND EVENT



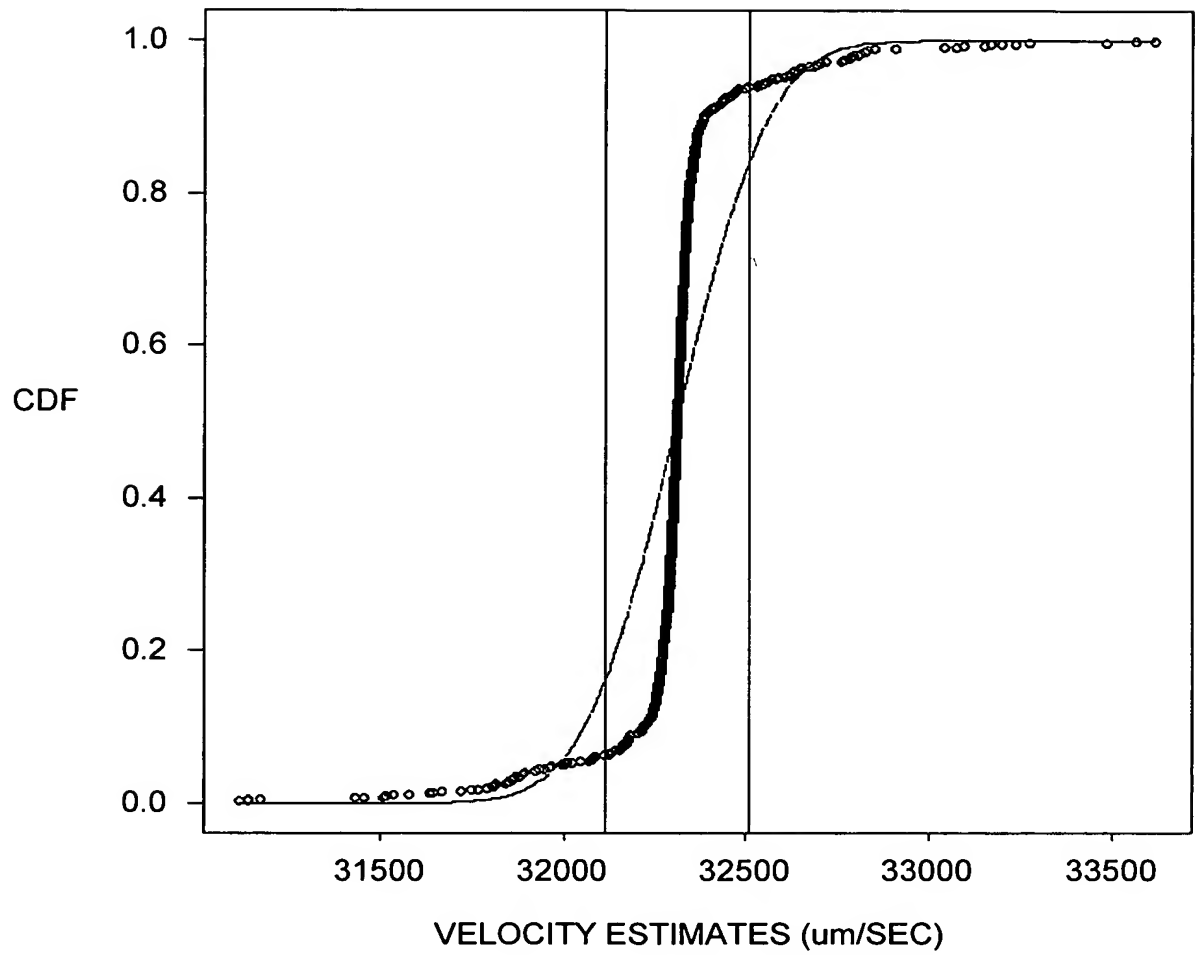
***FIG. 21B***



***FIG. 22***

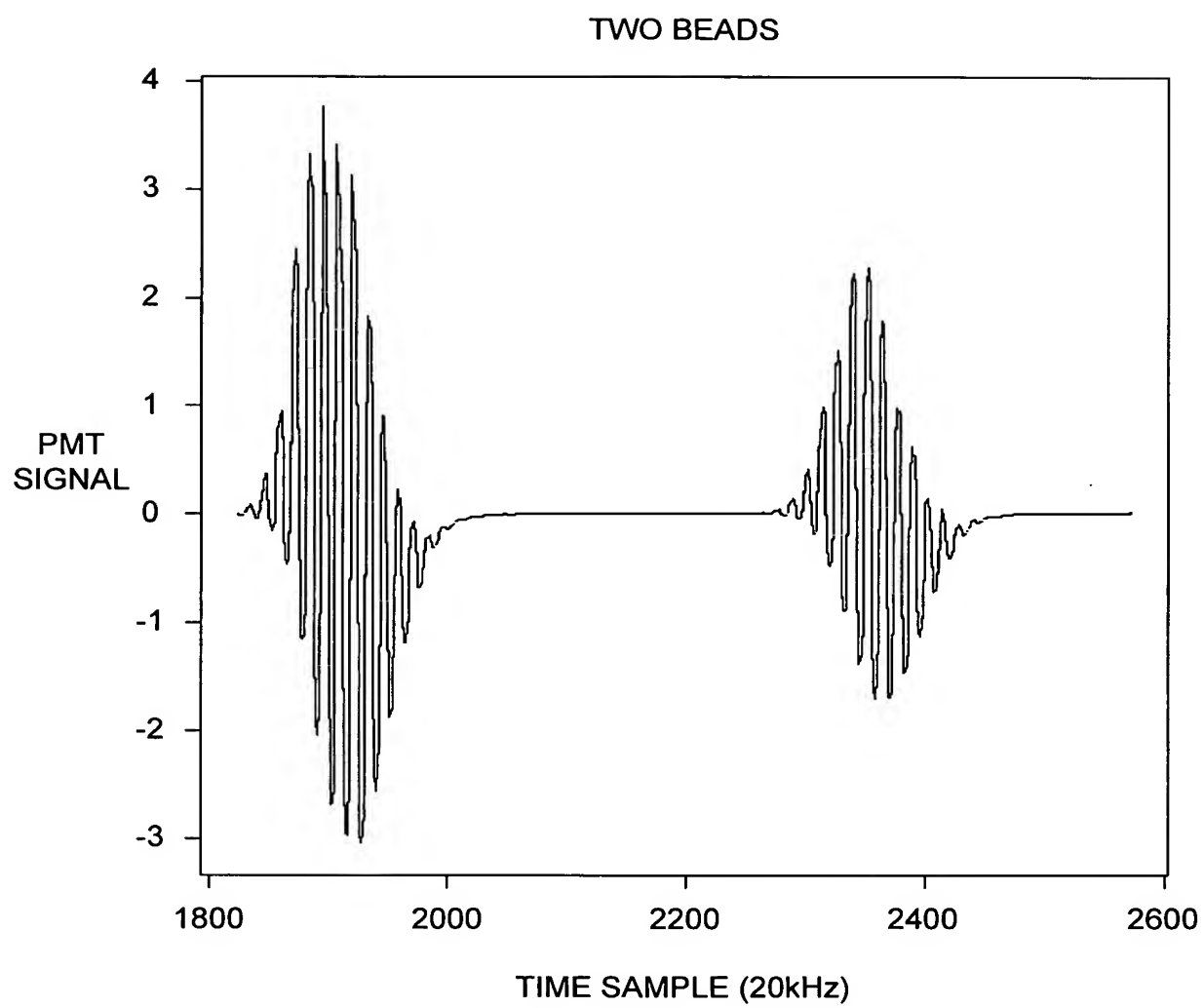


***FIG. 23A***

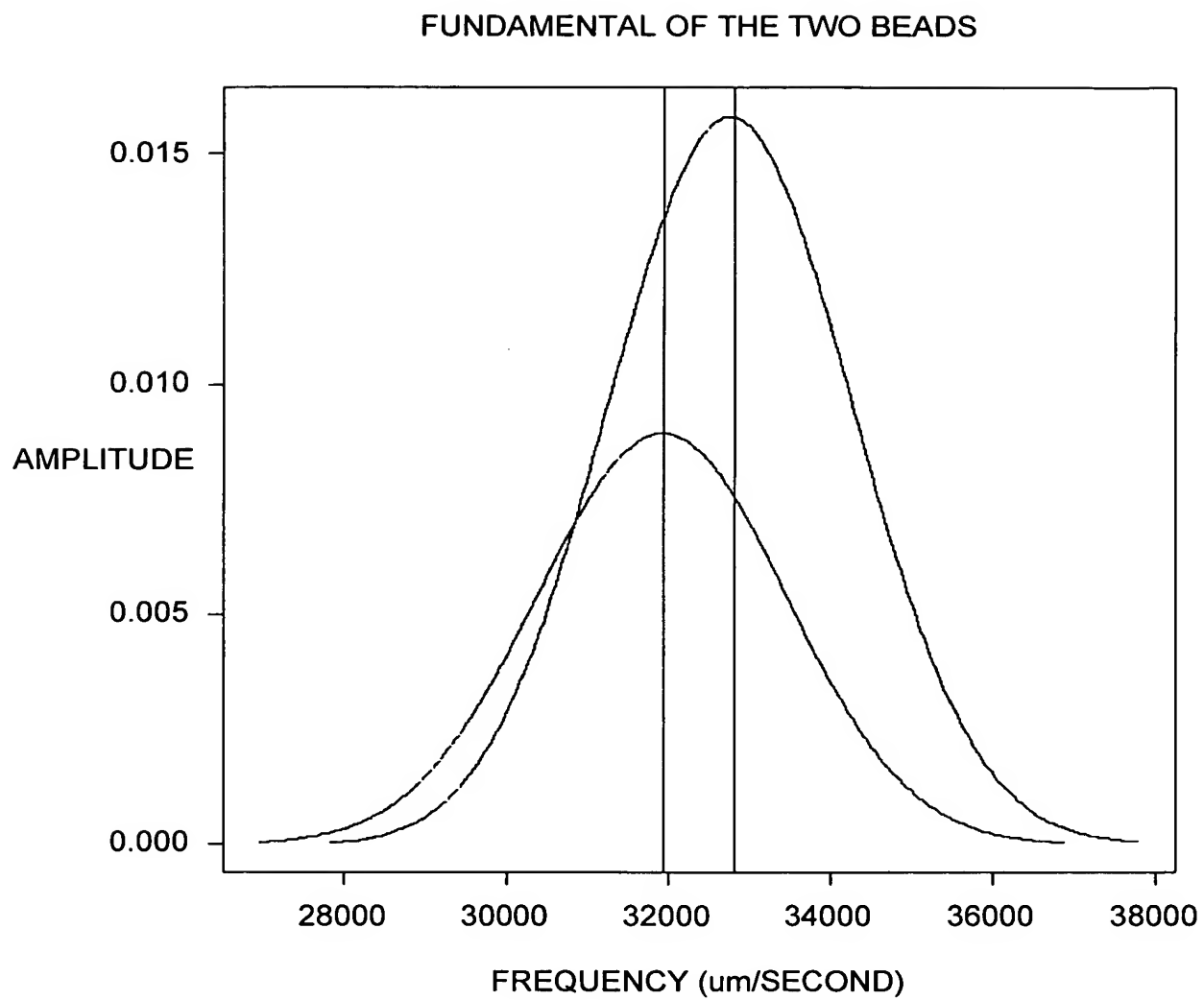


***FIG. 23B***

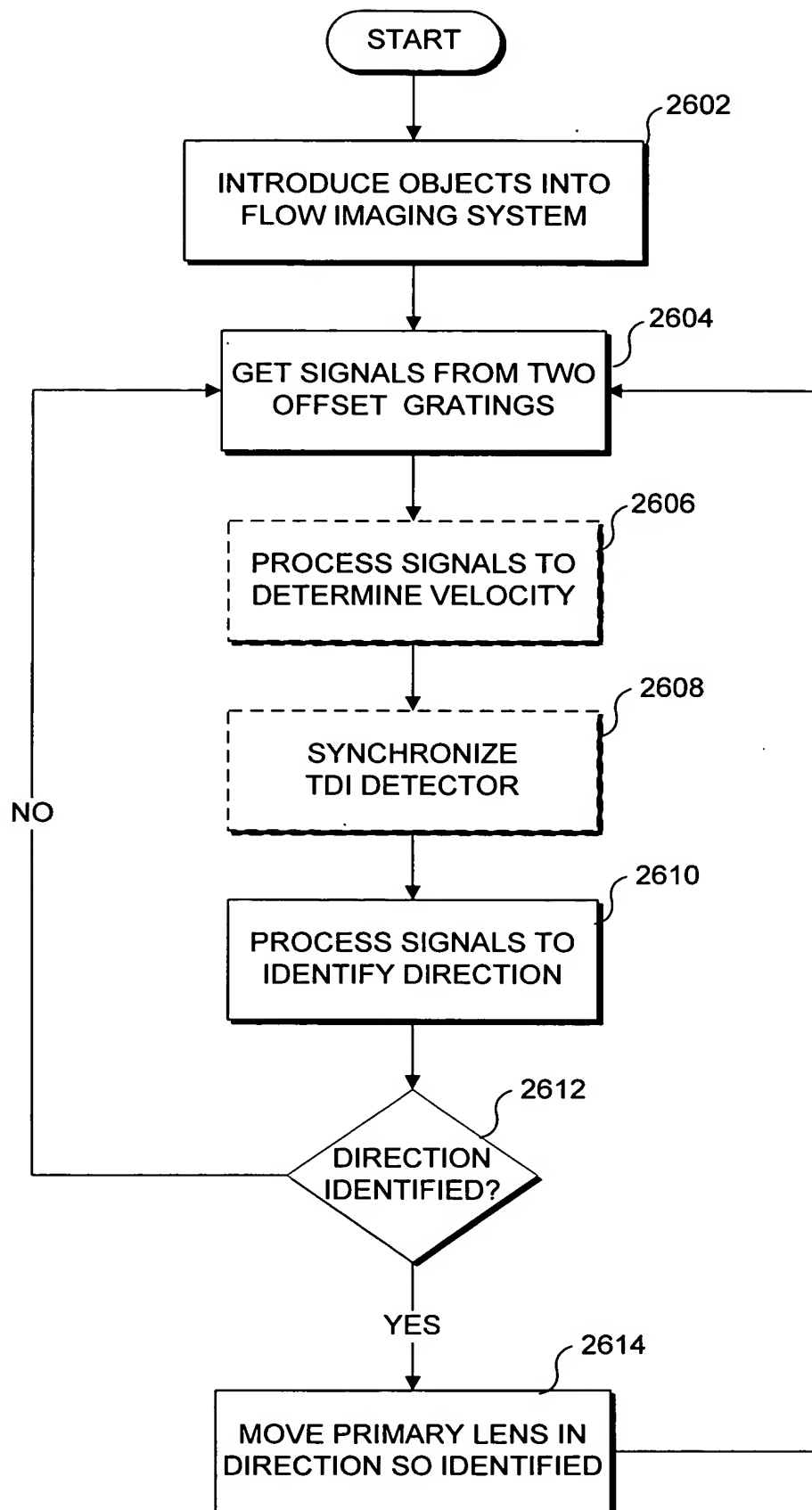




***FIG. 24***



***FIG. 25***



**FIG. 26**